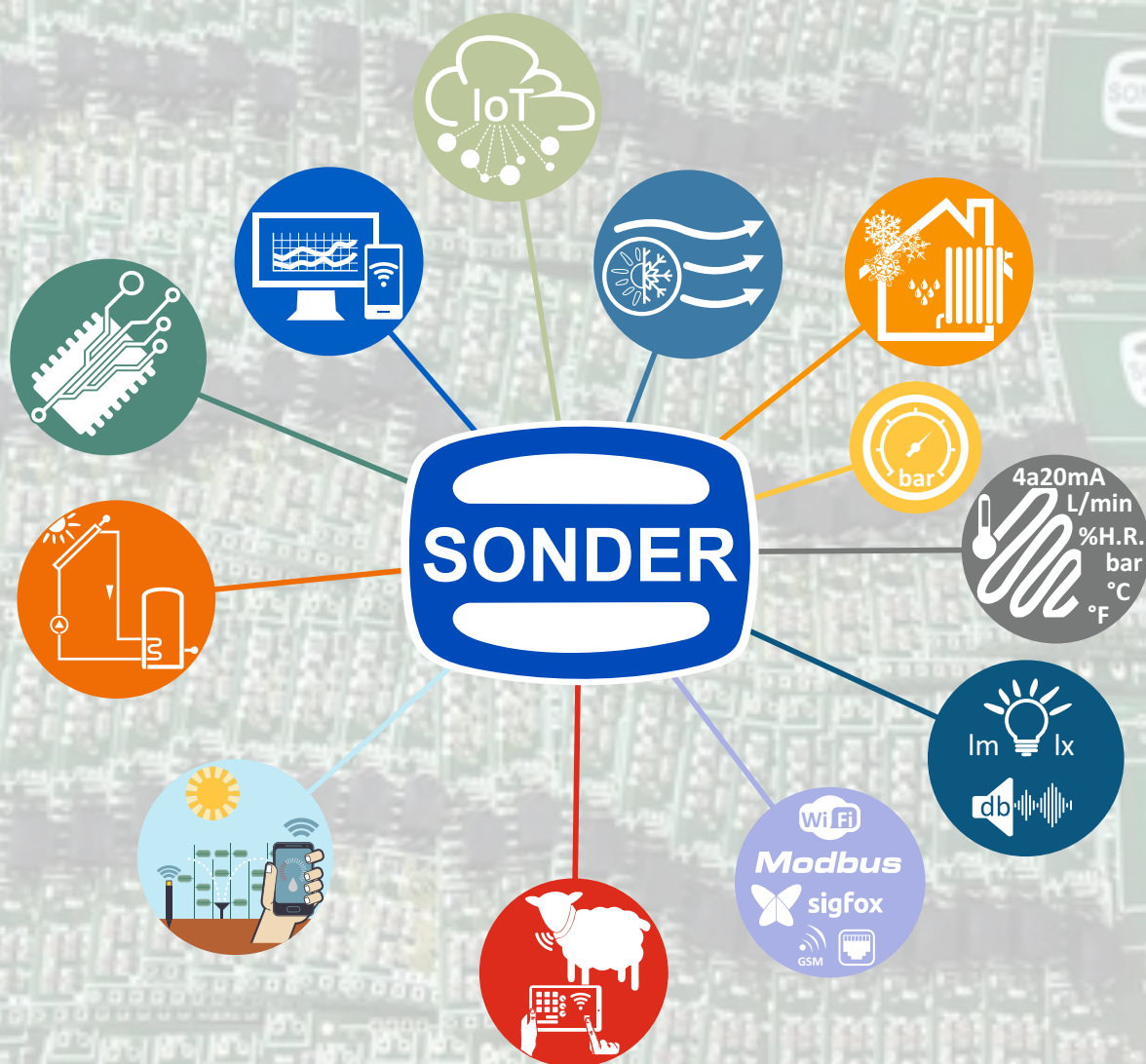


Sonder Regulación

2019 General Catalog



www.sonderregulacion.com



Siesta 105

New family of Thermostats & Chronothermostats

Coming Soon



Wi-Fi



RF 868,3MHz



Bluetooth Low Power



2,7" electronic ink display



iOS App



Android App



Relay



Proportional

www.sonderregulacion.com

Telefónico



Sondertel GSM

Schuko plug phone control 2G, 1 channel with 16A relay and 1 probe PTC2000 included, length 3m

Ref. 19.073

Sondertel GSM allows you to activate and de-activate from any point worldwide any simple installed device: a wall boiler, electric radiators, greenhouses,...even air conditioning.

Furthermore, it is equipped with a temperature probe that makes it possible to manage a temperature alarm that reports the installation temperature. This alarm can be linked to the relay manoeuvre, e.g. so that it activates the boiler enabling anti-frost protection.

- Measurements: 65 x 120 x 55mm
- Power Supply: 230V~ +10%-15% 50/60Hz
- SMS equipment remote control, temperature alarm
- Multi-language set-up programming and programming entrance password
- 1 Output channel with a 16(5)A 250V~ relay and 1 PTC2000 (-40 to +140°C) probe
- Bidirectional via SMS, reports feed status, functioning, coverage, channel status, temperature and statistics of the average temperature over the last 4 hours.
- Frontal button to change channel status without having to send an SMS
- With the possibility of confirming whether the order was executed or not (balance savings)
- Possibility of a timed connection from 1 minute to up to 45 days
- Alive function, autotest function (periodic and configurable)



Sondertel GSM 3G

3G telephone control, 1 Schuko plug-in channel (16A) and PTC2000 temperature sensor included, 3m

Ref. 19.094

Sondertel GSM allows you to activate and deactivate from any place in the world and with the easiest installation, any device: a wall boiler, electric radiators, greenhouses, ... even air conditioning.

It is also equipped with a temperature probe that allows you to manage a temperature alarm and informs you of the temperature in the installation. This alarm can be linked to the maneuver of the relay, for example to activate the boiler enabling the anti-freeze protection.

- It's 3G
- Dimensions: 65 x 120 x 55mm
- Power: 230V ~ + 10% -15% 50 / 60Hz
- Remote control of a device by SMS, alarm by temperature
- Configuration of multi-language programming and password for programming input
- 1 output channel with 16 (5) A 250V ~ relay and 1 PTC2000 probe (-40 to + 140°C)
- Bidirectional via SMS, informs about the status of power, operation, coverage, channel status, temperature and the statistics of the average of the last 4 hours.
- Front push button that allows changing the status of the channel without sending an SMS
- With the possibility of confirming or not the order executed (saving of balance)
- Possibility of timed connection from 1 minute to 45 days.
- Alive function, self-test operation (periodic and configurable)



Telkan 1 GSM

GSM switch control 2G, 1 channel, multi-languages, 1 relay, 1 alarm by closing contacts, 1 temperature probe (not included). It can be operate by battery

Ref. 19.077

TELKAN 1 GSM makes it possible to activate any device from any place worldwide: a wall boiler, electric radiators, greenhouses,...even air conditioning.

Furthermore, it is equipped with a temperature probe that makes it possible to manage a temperature alarm and that reports the temperature at the installation. This alarm can be linked to the relay manoeuvre, e.g. so that it activates the boiler enabling anti-frost protection. It also has a contact closure alarm

Furthermore, if an external auxiliary battery is connected to TELKAN, a power network failure alarm will be set up that will report when the power outage begins and ends.

- Measurements: 70 x 90 x 58mm
- Power supply: 230V~ +10%-15% 50/60Hz
- Equipment remote control by SMS, temperature control and contact closure alarm SMS
- Bidirectional via SMS, reports feed status, functioning, coverage, channel status, temperature and statistics of the average temperature over the last 4 hours.
- Can be programmed in several languages
- 1 Output channel SPST 5A 250V~ relay
- 1 Input for PTC2000 temperature probe, 1 output for contact closure alarm, and 1 input for an external battery.
- Frontal button to change channel status without having to send an SMS
- If there is a power network outage, an SMS alert is sent by the control function.
- SIM stand and standard antenna with magnetic base included (Does not include SIM card)
- Possibility of a timed connection from 1 minute to up to 45 days
- With the possibility of confirming whether the order was executed or not (balance savings)
- Alive function, autotest funct
- Redirects SMS from the telephone company to the same user
- Programming password



Telkan 1 GSM 3G

It is a 3G gsm control with 1 channel (or relay) output. Inputs: 1 alarm by contact closure, 1 temperature probe (probe only included in ST version) and an auxiliary input for 1 external battery (optional not included). Works at 230V ~ or battery

Ref. 19.091

It is a 3G gsm control with 1 channel (or relay) output. Inputs: 1 alarm by contact closure, 1 temperature probe (probe only included in ST version) and an auxiliary input for 1 external battery (optional not included). It can be powered at 230V ~ or 12Vdc, Telkan itself, with its internal charger, will charge the external battery if it is connected. Magnetic base antenna and 3m cable included. Rail mounting. Precise SIM (not included).

Application: allows to activate and deactivate a device from any place in the world by means of a sms message, for example: a wall-mounted boiler, electric radiators, greenhouse windows, irrigation, even air conditioning or simulate presence lighting lights, etc.

It is also equipped with a temperature probe that allows you to remotely inform the temperature and manage 1 alarm per temperature. It is not a thermostat. These alarms can be linked to the relay operation, for example to activate the boiler enabling the anti-freeze protection.

Technical characteristics

- If you connect an external auxiliary battery (ref.1,190) to the TELKAN, you will have an alarm for failure in the electrical network, which will warn you when you leave and when the power returns to your installation.
- SIM card holder and standard antenna with magnetic base included. Does not include SIM card
- In case of failure of the electrical network, the control sends a warning sms, if it has auxiliary power.
- Power supply: 230V ~ + 10% -15% 50 / 60Hz or by auxiliary input to 12Vdc, or by means of a battery, the same Telkan, manages both its load, and to operate with the accumulated energy if the power supply fails
- Remote control of 1 device by SMS
- Luminous messages of each entry or exit
- Front pushbutton that allows to manually change the status of the channel (relay) without consuming an SMS
- It is a team with bidirectional communication
- Reports:
 - temperature feed status average performance of the last 4 hours of those temperatures level of coverage help message



- Configurable programming in several languages: Spanish / English
- 1 output channel with 1 SPST relay of 5A 250V ~
- 1 input for temperature sensor PTC2000
- 1 alarm by closing contacts, for example a pressure switch in a solar installation, a door contact, or an alarm thermostat in a greenhouse or a cold room
- Possibility of timed c



Telkan 1 GSM ST

GSM switch control 2G, 1 channel, multi-languages, 1 relay, 1 alarm by closing contacts, 1 temperature probe included. It can be operate by battery

Ref. 19.080

TELKAN 1 GSM makes it possible to activate any device from any place worldwide: a wall boiler, electric radiators, greenhouses,...even air conditioning.

Furthermore, it is equipped with a temperature probe that makes it possible to manage a temperature alarm and that reports the temperature at the installation. This alarm can be linked to the relay manoeuvre, e.g. so that it activates the boiler enabling anti-frost protection. It also has a contact closure alarm

Furthermore, if an external auxiliary battery is connected to TELKAN, a power network failure alarm will be set up that will report when the power outage begins and ends.

- Measurements: 70 x 90 x 58mm- Power supply: 230V~ +10%-15% 50/60Hz
- Equipment remote control by SMS, temperature control and contact closure alarm SMS
- Bidirectional via SMS, reports feed status, functioning, coverage, channel status, temperature and statistics of the average temperature over the last 4 hours.
- Can be programmed in several languages
- 1 Output channel SPST 5A 250V~ relay
- 1 Input for PTC2000 temperature probe, 1 output for contact closure alarm, and 1 input for an external battery.
- Frontal button to change channel status without having to send an SMS
- If there is a power network outage, an SMS alert is sent by the control function.
- SIM stand and standard antenna with magnetic base included (Does not include SIM card)
- Possibility of a timed connection from 1 minute to up to 45 days
- With the possibility of confirming whether the order was executed or not (balance savings)
- Alive function, autotest funct
- Redirects SMS from the telephone company to the same user
- Programming password



Telkan 1 GSM ST 3G

It is a 3G gsm control with 1 channel (or relay) output. Inputs: 1 alarm by contact closure, 1 temperature probe (probe included in ST version) and an auxiliary input for 1 external battery (optional not included). It works at 230V ~ or battery.

Ref. 19.093

It is a 3G gsm control with 1 channel (or relay) output. Inputs: 1 alarm by contact closure, 1 temperature probe (probe included in ST version) and an auxiliary input for 1 external battery (optional not included). It can be powered at 230V ~ or 12Vdc, Telkan itself, with its internal charger, will charge the external battery if it is connected. Magnetic base antenna and 3m cable included. Rail mounting. Precise SIM (not included).

Application: allows to activate and deactivate a device from any place in the world by means of a sms message, for example: a wall-mounted boiler, electric radiators, greenhouse windows, irrigation, even air conditioning or simulate presence lighting lights, etc.

It is also equipped with a temperature probe that allows you to remotely inform the temperature and manage 1 alarm per temperature. It is not a thermostat. These alarms can be linked to the relay operation, for example to activate the boiler

enabling the anti-freeze protection.

Technical characteristics </ r>

- If you connect an external auxiliary battery (ref.1,190) to the TELKAN, you will have an alarm for failure in the electrical network, which will warn you when you leave and when the power returns to your installation.
- SIM card holder and standard antenna with magnetic base included. Does not include SIM card
- In case of failure of the electrical network, the control sends a warning sms, if it has auxiliary power.
- Power supply: 230V ~ + 10% -15% 50 / 60Hz or by auxiliary input to 12Vdc, or by means of a battery, the same Telkan, manages both its load, and to operate with the accumulated energy if the power supply fails
- Remote control of 1 device by SMS
- Luminous messages of each entry or exit
- Front pushbutton that allows to manually change the status of the channel (relay) without consuming an SMS
- It is a team with bidirectional communication
- Reports:
 - temperature feeding status
 - average operation of the last 4 hours of those temperatures
 - level of coverage help message
- Configurable programming in several languages: Spanish / English
- 1 output channel with 1 SPST relay of 5A 250V ~
- 1 input for temperature sensor PTC2000
- 1 alarm by closing contacts, for example a pressure switch in a solar installation, a door contact, or an alarm thermostat in a greenhouse or a cold room
- Possibil

Telkan 2 GSM



GSM switch control 2G, 2 channels, multi-languages, 2 relays, 2 alarms by closing contacts, 2 temperature probes (not included), type PTC (cod. 4.343). It can function by battery

Ref. 19.078

TELKAN 2 GSM makes it possible to activate and de-activate up to 2 different devices from any place worldwide: a wall boiler, electric radiators, greenhouses,...even air conditioning.

This control is equipped with two temperature probes that makes it possible to manage two temperature alarms that report the installation temperatures chosen. These alarms can be linked to any of the relays manoeuvres, e.g. so that it activates the boiler enabling anti-frost protection.

It also has two contact closure alarms and an input for a 4a20mA transducer.

Furthermore, if an external auxiliary battery is connected to TELKAN, a power network failure alarm will be set up that will report when the power outage begins and ends.

- Measurements: 70 x 90 x 58mm- Power Supply: 230V~ +10%-15% 50/60Hz
- Equipment remote control by SMS, temperature control and contact closure alarm SMS,
- Bidirectional via SMS, reports feed status, functioning, coverage, channel status, temperature and statistics of the average temperature over the last 4 hours.
- Can be programmed in several languages
- 2 Outputs channel SPST 5A 250V~ relays
- 2 Input for PTC2000 temperature probe, 1 output for contact closure alarm, and 1 input for an external battery.
- 2 alarms for contact closure
- Frontal button to change channel status without having to send an SMS
- If there is a power network outage, an SMS alert is sent by the control function.
- Reports feed status, running status, coverage and channel status
- SIM stand and standard antenna with magnetic base included (Does not include SIM card)
- Possibility of a timed connection from 1 minute to up to 45 days
- With the possibility of confirming whether the order was executed or not (balance savings)
- Alive function, autotest funct
- Redirects SMS from the telephone company to the same user
- Programming password

Telkan 2 GSM 3G



It is a 3G gsm control with 2 output channels (or relays). Inputs: 2 alarms for closing contacts, 2 temperature probes, 1 active probes type 4a20mA (probes not included) and an auxiliary input for 1 external battery. It works at 230V ~ or 12Vdc.

Ref. 19.092

It is a 3G gsm control with 2 output channels (or relays). Inputs: 2 alarms for closing contacts, 2 temperature probes, 1 active probes type 4a20mA (probes not included) and an auxiliary input for 1 external battery. It can be powered at 230V ~ or 12Vdc, internal charger included, magnetic base antenna and 3m cable included. Rail mounting. Precise SIM (not included).

Application: allows you to activate and deactivate from anywhere in the world up to two different devices, for example: a wall boiler, electric radiators, greenhouse windows, even air conditioning, simulate presence or irrigation.

It is also equipped with two connectors for temperature probes that lets you know the temperatures and manage two alarms per temperature. These alarms can be linked to the operation of any of the relays, for example to activate the boiler enabling frost protection, or the incorrect operation of a freezer.

Technical characteristics

SIM card holder and standard antenna with magnetic base included. Does not include SIM card

In case of failure of the electrical network, the control sends a warning sms, if it has auxiliary power from an external battery and will also warn you with the return of the power supply.

Power supply: 230V ~ + 10% -15% 50 / 60Hz or by auxiliary input to 12Vdc, or by a battery, the same Telkan, manages its charge, or goes to work with the battery power, if the power supply fails < /br>

Communicate alarms up to 4 phones per SMS

Luminous messages of each entry or exit

Front push button that allows to manually change the status of the channel (relay) without sending an SMS

It is a team with bidirectional communication (sends and receives information)

Reports: average feeding status of the last 4 hours of those temperatures

operating help message

temperature coverage level

Configurable programming in several languages: Spanish, English

2 output channels with 2 SPST relays (N-O) of 5A 250V ~ Remote control of up to 2 devices per SMS

2 inputs for temperature probes PTC2000

1 input for type 4a20mA transducer, for example a humidity probe, a liquid level, etc.

2 alarms by closing contacts, for example a pressure switch in a solar installation, a door contact, or an alarm thermostat in a greenhouse or a cold room

Possibility of de / timed connection from 1 minute t

Telkan 4 GSM 3G



It is a 3G gsm control with 4 output channels (or relays). Inputs: 3 alarms for closing contacts, 3 temperature probes, 1 active probes type 4a20mA (probes not included) and an auxiliary input for 1 external battery. It works at 230V ~ or 12Vdc.

Ref. 19.095

It is a 3G gsm control with 4 output channels (or relays). Inputs: 3 alarms for closing contacts, 3 temperature probes, 1 active probes type 4a20mA (probes not included) and an auxiliary input for 1 external battery. It can be powered at 230V ~ or 12Vdc, charger included, magnetic base antenna and 3m cable included. Rail mounting. Precise SIM (not included).

Application: allows you to activate and deactivate from anywhere in the world up to four different devices, for example: a wall boiler, electric radiators, greenhouse windows, even air conditioning or simulate presence.

It is also equipped with three temperature probes that let you know the temperatures and manage three alarms per

temperature. These alarms can be linked to the operation of any of the relays, for example to activate the boiler enabling the anti-freeze protection.

Technical characteristics

In addition, if you connect an external auxiliary battery to the TELKAN, you will have an alarm for failure in the electrical network, which will notify you when you leave and when the power returns to your installation.

SIM card holder and standard antenna with magnetic base included. Does not include SIM card

In case of power failure, the control sends a warning sms, if it has auxiliary power.

Power supply: 230V ~ + 10% -15% 50 / 60Hz or by auxiliary input to 12Vdc, or by a battery, the same Telkan, manages both its load, and operate with the accumulated energy if the power supply fails.

Remote control of up to 4 devices per SMS

Luminous messages of each entry or exit

Front push button that allows to manually change the state of the channel (relay) without consuming an SMS

It is a team with bidirectional communication

Reports:

- food status - temperatures

- operation - average of the last 4 hours of those temperatures

- level of coverage - help message

Configurable programming in several languages: Spanish / English

4 output channels with 2 SPST relays of 5A 250V ~ and 2 SPDT 12A

3 inputs for temperature probes PTC2000

1 input for type 4a20mA transducer, for example a humidity probe, etc.

3 alarms for closing contacts, for example a pressure switch in a solar installation, a door contact, or an alarm thermostat in a greenhouse or a cold room

Possibility of timed connection from 1 minute to 45 days, for each relay. Ex: watering

P

Telkan 1



Phone switch 1 channel. 9 Languages, for analogic phone line. Switch function, 1 relay 12A

Ref. 19.066

Remote control of unit by a unidirectional, multitone call (telephone keys)- Dimensions: 70 x 90 x 58mm

- Power supply: 230V- +10%-15% 50/60Hz

- 1 output channel with relay of 12(7)A 250V~

- Can be configured in 9 languages: Spanish, English, French, German, Italian, Catalan, Basque, Galician & Portuguese

- Report status via synthesised voice messages

- Front pushbutton changes channel status (open/closed) without the need for a telephone call (manual mode)

- In the event of a power cut, the channel recovers its previous status

- The apparatus reports status via three LEDs: Power supply on and in operation, attending a telephone call, channel status (open/closed)

Kit Telkan 2 GSM Cámara Frigorífica



Set consisting of Telkan 2 Gsm Switch, with 3m PTC Probe and Battery, For 2G network

Ref. 19.084

Set consisting of Telkan 2 Gsm Switch, with 3m PTC Probe and Battery

See code 19.078 to get more information about this phone remote switch



Kit Telkan 2 GSM Humedad+Temperatura

Set consisting of Telkan 2 Gsm switch, with Battery, 3m PTC2000 temperature probe and 3m SH01 humidity sensor, 4 to 20mA output

Ref. 19.088

Set consisting of Telkan 2 Gsm switch, with Battery, 3m PTC2000 temperature probe and 3m SH01 humidity sensor, 4 to 20mA output

See code 19.078 to expand telephone control information

Batería externa 12V. Para Allegro webServer y serie Telkan GSM



External Battery sealed for Allegro WebServer & Telkan GSM family. 12V, 7,2Ah. Dimensions 151 x 65 x 101mm

Ref. 7.190

Nominal Voltage: 12V

Nominal Capacity: 7.2Ah.

Measurements: 151 x 65 x 101.

Weight: 2.23 Kg.

Connections: Tab Faston #250E.

SFA 01



Water leak detection sensor with LED signal, buzzer and relay output (16A). Designed for alarm, control and monitoring applications. Powered at 7 to 24V

Ref. 7.732

Water leak detection sensor with LED signal and relay output. Designed for alarm, control and monitoring applications.

Aplication:

This liquid sensor is designed to be able to monitor the leaks of water pipes or unwanted water entries in the rooms. Protects buildings, facilities and equipment. Its use is very convenient to ensure the control and to show the good operation of the system. The device includes the following electronic components: green power led, red alarm led, relay contacts to trigger the alarm and can act, the sensor itself. With the optional probe SFA02, we can make an extension to 5m (16,40ft) and take another measurement point secured.

Technical characteristics

- In accordance with EC (2004/108/EC Electromagnetic Compatibility, EN 60730-1:2002). Product Safety (2001/95/EC Product Safety, EN 60730-1:2002).
- Powered supply at 15-24Vdc(+10%) or 24Vac (+10%)
- Power consumption 3,7W
- Conductivity switching threshold: 10nanoseconds
- Input wire, single input, M16 with wire máx. D=8mm
- Terminals: plug-in terminals max 1,5mm²
- Ambient temperature 0 a 60°C
- Transport/storage temperature -35 to 70°C, with a maximum humidity of 85% RH non-condensed
- Relay output: SPDT maximun load 230V/16A ohmic
- Contacts: material stainless steel 1.4305
- Enclosure: Polyamide, grey color
- Protection: IP65 according to EN60529
- Principle of measurement the conductivity by means of 3 electrodes

SFA 03



Liquid leakage sensor, monitors a perimeter area the leakage stock along the pipe or unwanted presence of water on the floor of the room. 3m length Rele 16Amp, power 7 to 24Vac / dc. Led indicator

Ref. 7.734

Application:

Liquid leakage sensor designed to monitor a perimeter area with respect to leaks along the water pipes or unwanted water entries in the floor of the rooms.

Warn in local, for remote communication must be completed with a communicator Telkan family. Ideal to apply in TIC rooms.

Protects buildings, facilities and equipment. It is very convenient to use to ensure control and show the proper functioning of the system. The device includes the following electronic components :, green led power, red alarm LED, contacts of the relay to launch the alarm and to act, the sensor itself.

Technical characteristics

In accordance with the EC.

Power at 7-24Vdc (+ 10%) or 24Vac (+ 10%), does not have a battery.

Consumption 3,7W

Conductivity switching threshold: 10nano seconds

Input cables, single input, M16 per cable max. diameter = 8mm

Terminals: max 1,5mm²

Ambient temperature 0 to 60°C

Transport / storage temperature -35 to 70°C, with a maximum humidity of 85% uncondensed RH

Relay output: commuted maximum load 220V / 16A ohmic

Sensor cable 3m, other lengths request at the factory.

Envelope: Polyamide, gray color

Protection: IP65 according to EN60529

Principle of measuring the conductivity using 2 electrodes

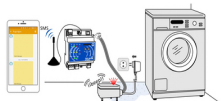
Adaptador de corriente pared de 230V a 12Vac/dc 5W para SFA



Wall power adapter from 230V to 12Vac / dc 5W for SFA

Ref. 7.938

Kit Telkan 1 GSM Alarma Inundación



Set compound by Telkan 1 Gsm switch, with Battery, Liquid leakage probe SFA03 and electric transformer of probe (cod. 19.077+7.734+7.938)

Ref. 19.089

Set componed by the gsm switch Telkan 1 Gsm, with external Battery and liquid leakage sensor SFA01
Look to code 19.077 to get more information about gsm phone switch

Cámaras



Seek Thermal Reveal PRO (RQ-EAAX)

Ref. 28.111

RevealPRO is our most advanced handheld thermal imaging camera. Highly durable, featuring a 320x240 sensor and high sensitivity, the RevealPRO runs for up to 10 continuous hours on a single charge. Offering adjustable thermal span, level, and emissivity

RevealPRO is our most advanced handheld thermal imaging camera. Highly durable, featuring a 320x240 sensor and high sensitivity, the RevealPRO runs for up to 10 continuous hours on a single charge. Offering adjustable thermal span, level, and emissivity settings the RevealPRO delivers unprecedented high-resolution thermal imaging and software capabilities available at this price.

Designed and Manufactured in Santa Barbara, California with Global Components.

KEY FEATURES

High-Resolution Thermal Sensor

320 x 240 thermal sensor for maximum image clarity and sensitivity

Adjustable Emissivity & Fully Radiometric

Calibrate for reflective surfaces or backgrounds when accuracy is critical

Wide, 32-Degree Field of View

Easily scan a large area to identify potential hazards in seconds

Long-Lasting Rechargeable Battery

Up to 10 hours of continuous thermal imaging on a single charge

See Through the Dark. Light Optional.

300 lumen LED flashlight available at the touch of a button

Best-in-Class Temperature Range

Measure temperatures from -40° to 330°C

BENEFITS & USES

Accurately Inspect Mechanical and Electrical Equipment

Diagnose and assess the problem source quickly

Safely Monitor Hazardous Environments

Evaluate potentially dangerous situations from a safe distance

See More Thermal Detail Where You Need it Most

Level and span controls let you isolate and capture the details that matter

Durable, All-In-One Device

Rugged, rubberized casing and intuitive controls go and work where you do

Time of Day Won't Slow You Down

Safely examine any job site in daylight or total darkness

Easily Document and Share

Save thermal images directly to the included MicroSD card



Seek Thermal Reveal XR FF Black (Fast Frame, RT-EBAX)

Extended range thermal (XR) camera with fast image scanning (FF). 274m range, 32,000 thermal pixels, detects from -40 ° to 330 ° C, fixed field of view. Autonomy 10h. Camera and flashlight, with micro SD

Ref. 28.108

Applications of Seek Reveal XR FF:

Police help him in search of a fugitive in the dark. A hunter allows you to search for footprints before sunrise in the woods. For a firefighter allows the exploration of a burning building. Perfect for boaters, outdoor enthusiasts, homeowners will find tranquility in the middle of the night, energy managers, electrical and mechanical engineers. The contractor will be able to find liquid leaks in dark places.

Seek Reveal XR FF gives you the power to see the heat at 900 feet (274 m) away. Thermal sensor array 206x156, field of view 20°, range of detected temperatures from -40°C to 330°C. Equipped with flashlight. It works both day and night.

Thanks to the fast image scanning (Fast Frame) the image is much sharper than the Reveal standard.

It is resistant to water and shock. Equipped with flashlight. Easy to use and share photos that are stored in micro SD memory.



Seek Thermal Reveal (Stand Alone, RW-EAA)

Thermographic (stand alone) camera. Length range 152m, 32,000 thermal pixels, detects from -40° to 330°C, fixed field of vision. Autonomy 10h. Camera and flashlight, with micro SD

Ref. 28.107

Applications of Seek Reveal:

Police help him in search of a fugitive in the dark. A hunter allows him to search in a dense forest. For a firefighter allows the exploration of a burning building. Perfect for boaters, outdoor enthusiasts, homeowners, energy managers, electrical and mechanical engineers.

Seek Reveal gives you the power to see the heat in 500 feet (152 m) away.

Camera and stand alone flashlight

Detects between -40 to + 330 ° C

206x156 sensor

Display Resolution 240x320

Display dimensions 2.4 inches (6.1cm)

Fixed focus

Rechargeable Lithium Battery

More than 10 hours of autonomy from full load

Micro SD photo storage

Charging by micro USB

Seek Thermal Compact PRO Android (UQ-EAAX)



CompactPRO is our most advanced thermal imaging camera designed for your smartphone. Made for iPhone® and Android™ top models, this highly-portable thermal imaging camera features a large, 320x240 thermal sensor with high sensitivity and a wide, 32-d

Ref. 28.110

CompactPRO is our most advanced thermal imaging camera designed for your smartphone. Made for iPhone® and Android™ top models, this highly-portable thermal imaging camera features a large, 320x240 thermal sensor with high sensitivity and a wide, 32-degree field of view. Offering adjustable thermal span, level, and emissivity settings, the



CompactPRO delivers unprecedented high-resolution thermal imaging and software capabilities available at this price.

Designed and Manufactured in Santa Barbara, California with Global Components.

KEY FEATURES

320 x 240 High-Resolution Thermal Sensor

76,800 temperature pixels for maximum image clarity and sensitivity

Adjustable Emissivity and Radiometric Files

Calibrate for reflective surfaces when accuracy is critical and store every temperature pixel

Wide, 32-Degree Field of View

Easily scan a large area to identify potential hazards in seconds

Focusable Lens for Quick Identification

Aim and focus from 6 inches to 1,800 feet for the sharpest image

Utilizes the Power and Display of Your Smartphone

Intuitive, free mobile app available on Google Play and iTunes App Store

Waterproof Case that Protects

Comes with its own waterproof case to withstand the elements

BENEFITS & USES

Connect-and-Detect Convenience

Pocket-sized, highly portable, and easy to use

See More Thermal Detail Where You Need it Most

Level and span controls let you isolate and capture the details that matter

Accurately Inspect Mechanical and Electrical Equipment

Diagnose and assess the problem source quickly

Safely Monitor Hazardous Environments

Evaluate potentially dangerous situations from a safe distance

Time of Day Won't Slow You Down

Safely examine any job site in daylight or total darkness

Easily Document and Share

Record images and video of industrial inspections for accurate documentation



Seek Thermal Compact PRO iOS (LQ-EAA)

CompactPRO is our most advanced thermal imaging camera designed for your smartphone. Made for iPhone® and Android™ top models, this highly-portable thermal imaging camera features a large, 320x240 thermal sensor with high sensitivity and a wide, 32-d

Ref. 28.109

CompactPRO es nuestra cámara térmica más avanzada para smartphone. Hecho para los modelos iPhone y Android de gama superior, esta cámara térmica altamente portable ofrece un sensor térmico grande de 320x240 con alta sensibilidad y un amplio campo de visión de 32 grados. Ofreciendo ajustes térmicos, de nivel y de emisividad ajustables, la CompactPRO ofrece capacidades de imagen térmica y de software de alta resolución sin precedentes disponibles a este precio.

Diseñado y fabricado en Santa Barbara, California con Componentes Globales

ESPECIFICACIONES CLAVE DE LA CÁMARA

Cámara termográfica para Smartphones (iOS o Android)

Sensor Térmico 320 x 240

Campo de visión 32°

Medición de la temperatura -40 a 626°F / -40 a 330°C

Distancia desde 6 pulgadas hasta 1.800 pies / 15cm hasta 548m

Funciona de día y noche

Estuche portador waterproof

Seek Thermal Compact XR Android (UT-EAA cámara térmica)



Thermographic camera. Length range 610m, 32,000 thermal pixels, detects from -40°C to 330°C, adjustable field of view, opening angle 20°

Ref. 28.106

Applications of Seek Thermal Compact XR - Xtra Range:

Police help him in search of a fugitive in the dark. A hunter allows him to search in a dense forest. For a firefighter allows the exploration of a burning building. Perfect for boaters, outdoor enthusiasts, homeowners, energy managers, electrical and mechanical engineers.

Seek Thermal Compact XR gives you the power to see the heat at 2,000 feet (610 m) away and as close to 8 inches (20 cm). This additional range allows the camera to offer the same clarity and resolution as the original Seek Thermal Compact camera, but with double magnification and a focusable lens for precise thermal imaging using macro.

For Android phone system

Vision range up to 2,000 feet (610m)

206x156 sensor array

Thermal Pixels 32.136

Detects between -40 to + 330 ° C

Field of view 20°

Detection Range 600m

Adjustable eyepiece manually

Waterproof carry case

Weight 14.2gr.

Packing weight 235,31gr.

Seek Thermal Compact XR iOS (LT-EAA cámara térmica)



Thermographic camera. Length range 610m, 32,000 thermal pixels, detects from -40°C to 330°C, adjustable field of view, opening angle 20°

Ref. 28.105

Applications Seek Thermal Compact XR - Xtra Range:

Police help him in search of a fugitive in the dark. A hunter allows him to search in a dense forest. For a firefighter allows the exploration of a burning building. Perfect for boaters, outdoor enthusiasts, homeowners, energy managers, electrical and mechanical engineers.

Seek Thermal Compact XR gives you the power to see the heat at 2,000 feet (610 m) away and as close to 8 inches (20 cm). This additional range allows the camera to offer the same clarity and resolution as the original Seek Thermal Compact camera, but with double magnification and a focusable lens for precise thermal imaging using macro.

For iOS phone system
Vision range up to 2,000 feet (610m)
206x156 sensor array
Thermal Pixels 32.136
Detects between -40 to + 330 ° C
Field of view 20°
Detection Range 600m
Adjustable eyepiece manually
Waterproof carry case
Weight 14.2gr.
Packing weight 235,31gr.

Seek Thermal Compact Android (UW-EAA cámara térmica)



Thermographic camera. Range 305m, 32,000 thermal pixels, detects from -40° to 330°C, adjustable field of view, opening angle 36°

Ref. 28.104

Applications of Seek Thermal Compact:

From the owner who practices DIY looking for insulation leaks, to the professional inspector, to the plumber detecting obstructions, or to the electrician checking for circuit breakers, insulation installers, air conditioning professionals, carpet cleaners, pet owners and general security Seek Thermal Compact allows you to see "everything that was invisible" like never before.

Seek Thermal Compact gives you the power to see heat up to 1,000 feet (305m) away. This wide field of view of the camera detects the infrared light emitted by all objects, and uses the data of more than 32,000 thermal pixels to create a visible image on your mobile device; Which allows the camera to work both in broad daylight and with complete darkness.

For Android phone system
Vision range up to 1,000 feet (305m)
206x156 sensor array
Thermal Pixels 32.136
Detects between -40 to + 330 ° C
Field of view 36°
Detection Range 305m
Adjustable eyepiece manually
Waterproof carry case
Weight 14.2gr.
Packing weight 235,31gr.

Seek Thermal Compact iOS (LW-EAA cámara térmica)



Thermographic camera. Range 305m, 32,000 thermal pixels, detects from -40° to 330°C, adjustable field of view, opening angle 36°

Ref. 28.103

Applications of Seek Thermal Compact:

From the owner who practices DIY looking for insulation leaks, to the professional inspector, to the plumber detecting obstructions, or to the electrician checking for circuit breakers, insulation installers, air conditioning professionals, carpet cleaners, pet owners and general security Seek Thermal Compact allows you to see "everything that was invisible" like never before.

Seek Thermal Compact gives you the power to see heat up to 1,000 feet (305m) away. This wide field of view of the

camera detects the infrared light emitted by all objects, and uses the data of more than 32,000 thermal pixels to create a visible image on your mobile device; Which allows the camera to work both in broad daylight and with complete darkness.

For iOS phone system
Vision range up to 1,000 feet (305m)
206x156 sensor array
Thermal Pixels 32.136
Detects between -40 to + 330 °C
Field of view 36°
Detection Range 305m
Adjustable eyepiece manually
Waterproof carry case
Weight 14.2gr.
Packing weight 235,31gr.

Adaptador conector giro 180° cámara android Compact



Adaptador para cámara Android- venta asociada a una cámara

Ref. 28.112



Reveal D-Ring (argolla)

Argolla cinturón para cámara Reveal

Ref. 28.113

Solar

Allegro 788 GSM WebServer



Surface mounting control, 8 relays, 8 probes, 3 liter counters and Remmote connection / dynamic by WEB (including 3 probes of 1.5 m type PT1000)

Ref. 20.073

It is a regulator for the capture of thermal solar energy, it is ideal for maintainers and prevents displacement of the technical service, providing installation value and professionalism also provides speed in the identification and location of incidents through the inspection of the facility from any browser, without having to install applications or programs, this machine has a web server, so it does not depend on any market platform, such as windows, Macintosh, ...).

Generates greater service as it provides the data needed to demonstrate its performance and achieved specific function and health maintenance for Legionella energy savings. It also offers you several ways of management:

- Check the installation status in real time via GPRS, from the web browser on your PC or Smartphone, you can see each of the data in real time, temperature, flow, functions, parameters set, devices that are running .. ., etc
- Consultation and activation of specific functions via SMS (environments thermostats, independent thermostats, heaters ...)
- Total installation settings from the control itself .
- In addition to control it incorporates 4 different alarms to ensure proper operation of the installation, water leak detection, pressure loss, damage or probe error, overtemperature, cut in electricity supply ... e.t.c.

Communications

- Bidirectional from your smartphone, easily configure the functions of thermostats and heaters by SMS
- Large LCD display and backlit graphic blue text visible even in technical rooms in low light

- Consultation of statistics and status of each component using SMS
- Reception of alarms by SMS
- Remote connection via dynamic WEB, is the connection mode more economical network and remains open for 40 minutes. No precise static connection (no need to have a fixed IP)
- Shows the remaining time pantalla connection
- Possibility of remoting of 2 thermostats, for 2 sensors, of 2 air heaters for heat dissipation ...
- It also has built-instruction manual on the web, so you always have at your disposal all documentation when you need it and wherever you are
- Software OpenSonder, you choose the hydraulic diagram and assigns probes relays freely, against Central models that require each probe and relay for single use
- In its configuration it has 20 main hydraulic diagrams that help you configure your installation type and functions (

Allegro 788L



Surface mounting control, 8 relays, 8 probes, 3 liter counters (including 3 probes of 1.5 m type PT1000)

Ref. 20.072

Allegro 788L is a regulator for the capture of thermal solar energy that offers the necessary resources to manage your installation. 8 PT1000 probes supporting a high range of temperature, 8 SPST Relays, and three independent inputs for litre counters (impulse counters) for the Energy Counter, make it possible to separately control three parts of the installation and know the energy supplied by the solar collectors to the installation.

Furthermore it has a Legionella function, which makes it capable of managing high temperature cycles for antibacterial sanitary treatments.

- Power supply: 230V~ +10%-15% 50/60Hz
- 8 SPST 5A 250V~ Relays. Free Contacts of
- Can be set up with up to 8 PT1000 probes with a range of -50°C to +200°C
- Very clear back-lit blue LCD type display
- Installation Versatility: Cable entry through the back or lower part, held by cable clamps or PG, plenty of space to connect and fix to the wall
- Functions: Support, anti-frost, increased return, double pump, tubular collectors, possibility of managing priorities, Or (1,2), And, heat dissipater (1,2), independent thermostat (1,2) ambient thermostat (1,2), accumulator cooling, Legionella and energy counter
- The ambient thermostat function together with Moderato SR makes it possible to change the settings for your sitting room, for example, without going down to the boiler room
- Test for probes, relays and counter for installation start-up
- Programming access password
- Possibility of setting up a differential thermostat for heating and secondary ventilation solar energy systems
- Makes it possible to set up two differential cooling thermostats
- Free assignation of resources (relay and probe selection for each function), this minimizes distributor stock
- Has a statistics menu, which will give your the date collected by your installation on maximum, minimum and mean temperatures for each zone, device running hours, flows and energy supplied
- 3 Independent inputs for impulse litre counters for the Energy Counter function

Allegro 786L Modulating



Surface mounting control, 6 relays, 8 probes, 1 outpt of 0-10V and 3 liter counters (including 3 probes of 1.5 m type PT1000)

Ref. 20.076

Allegro 786 Modulating is a regulator for the capture of thermal solar energy that offers the necessary resources to manage your installation. 8 PT1000 probes supporting a high range of temperature, 6 SPST Relays, and and 1 PID 0-10V outlet for an ambient thermostat and independent thermostat, with a mixing valve.

It also has three independent inputs for litre counters (impulse counters) for the Energy Counter, which make it possible

to separately control three parts of the installation and know the energy supplied by the solar collectors to the installation.

Furthermore it has a Legionella function, which makes it capable of managing high temperature cycles for antibacterial sanitary treatments.

- Power supply: 230V~ +10%-15% 50/60Hz
- 6 SPST 5A 250V~ Relays. Free Contacts of
- Can be set up with up to 8 PT1000 probes with a range of -50°C to +200°C
- Very clear back-lit blue LCD type display
- Installation Versatility: Cable entry through the back or lower part, held by cable clamps or PG, plenty of space to connect and fix to the wall
- Functions: Support, anti-frost, increased return, double pump, tubular collectors, possibility of managing priorities, Or (1,2), And, heat dissipater (1,2), independent thermostat (1,2) ambient thermostat (1,2), accumulator cooling, Legionella and energy counter
- The ambient thermostat function together with Moderato SR makes it possible to change the settings for your sitting room, for example, without going down to the boiler room
- Test for probes, relays and counter for installation start-up
- Programming access password
- Possibility of setting up a differential thermostat for heating and secondary ventilation solar energy systems
- Makes it possible to set up two differential cooling thermostats
- Free assignation of resources (relay and probe selection for each function), this minimizes distributor stock
- Has a statistics menu, which will give you the data collected by your installation on maximum, minimum and mean temperatures for each zone, device running hours, flows and energy supplied
- 3 Independent inputs for impulse litre counters for the Energy Counter function

Allegro 675L



Surface mounting control, 5 relays, 7 probes and 1 liter counters (including 3 probes of 1.5 m type PT1000)

Ref. 20.071

The Allegro 600 range are regulators to capture thermal solar energy and come in two models, according to the resources necessary for the installation.

Furthermore it has an independent inlet for the water counter (by impulse) for the Energy Counter function. Furthermore it has a Legionella function, which makes it capable of managing high temperature cycles for antibacterial sanitary treatment.

- Box measurements IP40: 220 x 160 x 50 mm
- Power supply: 230V~ +10%-15% 50/60Hz
- 5 SPDT 5A 250V~ Relays. Free Contacts of
- Can be set up with up to 7 PT1000 probes with a range of -50°C to +200°C
- Very clear back-lit blue LCD type display
- Installation Versatility: Cable entry through the back or lower part, held by cable clamps or PG, plenty of space to connect and fix to the wall
- Functions: Support, anti-frost, increased return, double pump, tubular collectors, possibility of managing priorities, Or (1,2), And, heat dissipater (1,2), independent thermostat (1,2) ambient thermostat (1,2), accumulator cooling, Legionella and energy counter
- The ambient thermostat function together with Moderato SR makes it possible to change the settings for your sitting room, for example, without going down to the boiler room
- Test for probes, relays and counter for installation start-up
- Programming access password
- Possibility of setting up a differential thermostat for heating and secondary ventilation solar energy systems
- Makes it possible to set up two differential cooling thermostats
- Free assignation of resources (relay and probe selection for each function), this minimizes distributor stock
- Has a statistics menu, which will give you the data collected by your installation on maximum, minimum and mean temperatures for each zone, device running hours, flows and energy supplied
- 3 Independent inputs for impulse litre counters for the Energy Counter function



Allegro 653L

Surface mounting control, 3 relays, 5 probes and 1 liter counters (including 2 probes of 1.5 m type PT1000)

Ref. 20.069

The Allegro 600 range are regulators to capture thermal solar energy and come in two models, according to the resources necessary for the installation.

Furthermore it has an independent inlet for the water counter (by impulse) for the Energy Counter function. Furthermore it has a Legionella function, which makes it capable of managing high temperature cycles for antibacterial sanitary treatment.

- Box measurements IP40: 220 x 160 x 50 mm
- Power supply: 230V~ +10%-15% 50/60Hz
- 3 SPDT 5A 250V~ Relays. Free Contacts of
- Can be set up with up to 7 PT1000 probes with a range of -50°C to +200°C
- Very clear back-lit blue LCD type display
- Installation Versatility: Cable entry through the back or lower part, held by cable clamps or PG, plenty of space to connect and fix to the wall
- Functions: Support, anti-frost, increased return, double pump, tubular collectors, possibility of managing priorities, Or (1,2), And, heat dissipater (1,2), independent thermostat (1,2) ambient thermostat (1,2), accumulator cooling, Legionella and energy counter
- The ambient thermostat function together with Moderato SR makes it possible to change the settings for your sitting room, for example, without going down to the boiler room
- Test for probes, relays and counter for installation start-up
- Programming access password
- Possibility of setting up a differential thermostat for heating and secondary ventilation solar energy systems
- Makes it possible to set up two differential cooling thermostats
- Free assignation of resources (relay and probe selection for each function), this minimizes distributor stock
- Has a statistics menu, which will give you the data collected by your installation on maximum, minimum and mean temperatures for each zone, device running hours, flows and energy supplied
- 3 Independent inputs for impulse litre counters for the Energy Counter function



Allegro Pool

Surface control for swimming pools, 3 relays 10A SPDT, 2 probes PT1000. Ideal for polyethylene solar panels, including 2 probes. Easy operation for the user

Ref. 20.106



Allegro 576 Raíl

Rail mounting control, 6 relays, 7 probes, 1 liter counters (including 3 probes of 1.5 m type PT1000)

Ref. 20.043

With Allegro 576 it is possible to set up 7 probes (it only includes 3) which will make it possible to control 6 floors per floor with a single device, before it was necessary to install an independent device for each floor. In the case of buildings with less than 6 floors, the surplus resources can be used for other floors (e.g., in a building with 2 floors per floor at 5 different heights, only 2 controls are necessary).

With ONLY ONE PROBE on the downspout it is possible to control the accumulators of up to 6 homes. Furthermore it counts the kWh energy for the complete installation.

- Differential temperature control with informative installation diagrams.
- Power supply: 230V~ +10%-15% 50/60Hz
- 6 SPST 5A 250V~ Relays. Free Contacts of

- Can be set up with up to 7 PT1000 probes with a range of -50°C to +200°C
- Separately adjustable activation/de-activation differentials
- On the screen it is possible to see the installation diagram, devices that are running, and also temperatures and assigned probes.
- Functions: Support, anti-frost, increase in return, double pump, tubular collectors, Or, And, independent thermostat (1,2,3), ambient thermostat (1,2), accumulator cooling and calorie counter (optional litre counter)
- The ambient thermostat function together with Moderato SR makes it possible to change the settings for your sitting room, for example, without going down to the boiler room
- Test for probes, relays and counter for installation start-up
- Programming access password
- Has a statistics menu, which will give you the date collected by your installation on maximum, minimum and mean temperatures for each zone, device running hours, flows and energy supplied

Ask for the following versions: custom, SD memory, power supply 115V ~, with triac output and / or digital inputs and proportional electronic pump control



Allegro 453 Rail

Rail mounting control, 3 relays, 5 probes, 1 liter counters (including 2 probes of 1.5 m type PT1000)

Ref. 20.044

Allegro is a regulator for collecting thermal solar energy with 5 inputs (t1, t2,..., t5) by means of PT1000 probes (2 included); furthermore the input from probe t5 can be set up as an impulse input for the calorie counter function (impulses).

- Differential temperature control with informative installation diagrams.
- Power supply: 230V~ +10%-15% 50/60Hz
- 3 Relays, 2 12A SPDT, 1 5A 250V~ SPST, potential free and with plug-ins
- Can be set up with up to 5 PT1000 probes with a range of -50°C to +200°C
- Functions: Support, anti-frost, increase in return, double pump, tubular collectors, Or, And, independent thermostat (1,2,3), ambient thermostat (1,2), accumulator cooling and calorie counter (optional litre counter)
- The ambient thermostat function together with Moderato SR makes it possible to change the settings for your sitting room, for example, without going down to the boiler room
- Test for probes, relays and counter for installation start-up
- Programming access password
- Possibility of setting up a differential thermostat for heating and secondary ventilation solar energy systems
- Free assignation of resources (relay and probe selection for each function), this minimizes distributor stock
- Has a statistics menu, which will give you the date collected by your installation on maximum, minimum and mean temperatures for each zone, device running hours, flows and energy supplied

Contact the sales department for custom versions, versions with SD memory, power supply 115V ~, with triac output and / or digital inputs and proportional electronic pump control



Allegro 454 Rail

Rail mounting control, 4 relays, 5 probes, 1 liter counters (including 3 probes of 1.5 m type PT1000)

Ref. 20.045

Allegro is a regulator for collecting thermal solar energy with 5 inputs (t1, t2,..., t5) by means of PT1000 probes (2 included); furthermore the input from probe t5 can be set up as an impulse input for the calorie counter function (impulses).

- Differential temperature control with informative installation diagrams.

- Power supply: 230V~ +10%-15% 50/60Hz- 4 Relays, 2 12A SPDT, 1 5A 250V~ SPST, potential free and with plug-ins
- Can be set up with up to 5 PT1000 probes with a range of -50°C to +200°C
- Functions: Support, anti-frost, increase in return, double pump, tubular collectors, Or, And, independent thermostat (1,2,3), ambient thermostat (1,2), accumulator cooling and calorie counter (optional litre counter)
- The ambient thermostat function together with Moderato SR makes it possible to change the settings for your sitting room, for example, without going down to the boiler room
- Test for probes, relays and counter for installation start-up
- Programming access password
- Possibility of setting up a differential thermostat for heating and secondary ventilation solar energy systems
- Free assignation of resources (relay and probe selection for each function), this minimizes distributor stock
- Has a statistics menu, which will give you the date collected by your installation on maximum, minimum and mean temperatures for each zone, device running hours, flows and energy supplied

Contact the sales department for custom versions, versions with SD memory, power supply 115V ~, with triac output and / or digital inputs and proportional electronic pump control

Allegro 543G



Rail mounting control, 3 relays, 4 probes and 1 liter counters (including 4 probes of 1.5 m type PT2000). Graphic oled display

Ref. 20.029

Allegro G is a regulator for collecting thermal solar energy with 4 inputs (S1,..., S4) by means of PTC2000 probes, one input for litre counters (impulse counters) for the Energy Counter, and 3 outputs for high power relays.

In G Allegro programming find 9 predefined systems for different types of hydraulic systems to help you configure your system easily and quickly.

- RAIL measurements : 105 x 90 x 57 mm
- Power supply: 230V~ +10%-15% 50/60Hz
- Rail-DIN: 3 relays 12(5)A 250V~, 4 PTC2000 probes with a range of -40°C to +140°C and plug-in bases
- 3D animations on OLED screen (1.6" Rail-DIN / 2.7" surface)
- Functions: Support, anti-ice, return increase, double pump, tubular sensors, accumulator cooling and calorie counter (optional water meter)
- Programming access password
- Supports up to 3 accumulators (swimming pools, underfloor heating, etc.)
- Distinguishes between single sensors and those facing east/west



Allegro 401S

Solar surface control mounting with 1 relay (10A), multiprobe. It comes with 1pc of PTC2000 ECO probe and 1 pc of PTC2000 silicone probe both of 1,5m. Placa TA is optional not included (cod. 3.970)

Ref. 20.042

Modern design, small size, 76x76x32mm

Feed: 230Vac/dc +10%-15% 50/60Hz

1 10A 250V~ Relay and potential free or dry contacts

Two PT1000 probes. Reading range temperatures from -50 to +200°C

Includes mounting frame for Ø60 de 85 x 85 mm box

Functions and parameters similar to Allegro Easy



Allegro 400S

Solar surface control with 1 relay (10A) and 2 PTC2000 included 1,5m

Ref. 20.009

Temperature differential control

Power supply: 230V~ +10%-15% 50/60 Hz

1 relay 10A 250V~ and 2 PTC probes with a range from -40 to +140°C

Accumulator temperature alarm for independent installations

Plate temperature alarm for installations with drainage systems

Accumulator temperature alarm for installations with zone valve control

Activation/deactivation differentials can be adjusted separately

Temperature selection display: manifold or tank. Click on "OK" to temporarily display the other temperature. Both can be calibrated separately

Forced on function (enable/disables relay), stop, anti-ice programmable from -23°C to +10°C

Programming access PIN



Allegro PWM Convertidor

Universal converter from on/off input signal to modulated pwm or 0-10V output

Ref. 20.101

This device convert the signal from relay control to PWM or 0-10V pump or valve. This product offer you the possibility to connect an ErP high efficiency pump or 0-10V with a control with output relay or triac. In this way you can remain using your old relay control with the new pump.

The purpose of this Converter is to solve all possible needs between relay or triac to PWM or 0-10V

It is compatible with the Sonder control units already supplied. In the case of the replacement of a pump in an existing installation it would not be necessary to replace "also" the control unit. Simply insert the Allegro PWM Converter into the installation.

Applications:

- Existing installations where the pump is replaced by one High Efficiency Pump
- Possibility of transforming relay equipment free of potential to output PWM or 0-10V
- Ease of adaptation of new and existing installations

Characteristics:

- IP65 housing
- Plug connectors
- 200mA protection fuse
- Output PWM or 0-10V. There is the possibility of reversing the signal
- Dimensions 95x95x55 mm
- Led power supply confirmation



Allegro 400S PWM

Differential control with PWM action 0-10V, 2-10V, for high efficiency pumps ErP.
Included probes

Ref. 20.103



It is an all-in-one compact surface control, thermometer and differential thermostat. It is ideal for high efficiency pumps (ErP) in solar installations (PWM1), geothermal (PWM2), supporting a heating system, in sanitary hot water or free cooling systems. The equipment can generate the following output signals: PWM, 0-10V, 2-10V or their inverse.

Technical Features

- Differential temperature control
- Outputs 0-10V, 2-10V, PWM
- Possibility to reverse the output signal (geothermal)
- Analog output type is set via jumpers
- PID algorithm to ensure the highest energy efficiency
- PWM signal: voltage 10.5V frequency 625Hz +15%
- Dimensions: 65x90x40mm
- Power supply: 230V ~ + 10% -15% 50 / 60Hz
- 2uts of 1.5m calibratable PTC2000 probes included. Range -40 to + 140 ° C, supports 200° C
- Password to avoid tampering by unauthorized personnel
- Red digital display of great luminosity, ideal technical rooms in low light
- Alarm Temperature accumulator for independent installations
- Alarm Temperature plates for systems with drainback systems
- Alarm Temperature accumulator for installations with control of zone valves
- Display temperature selection: collector or tank. Pressing "OK" temporarily displays the other temperature. Possibility to calibrate both probes separately
- Forcing functions (activates / deactivates the analog output for testing). Stop, programmable anti-frost from -20°C to + 10°C

Accessories:

- ref. 4.343 Probe PTC2000, 3m silicone cable, range -40 to + 140°C, supports 200°C
- ref. 7.470 Cable meter to extend probes
- ref. 7.377 1 meter linear diameter, 4,8mm diameter, to seal joints of extensions
- ref. 5.614 Syringe 10grs, with conductive paste cap to improve the accuracy in pods and surfaces.
- ref. 24.046 Sheath 20mm
- ref. 24.027 50mm sheath
- ref. 24.025 Sheath 100mm
- ref. 24.026 Sheath 200mm

In AAC mode, it activates the analog output connected to the pump to circulate the heat transfer liquid and relay 2 connected to the heater to cool the liquid and deactivate when the tank temperature is lower than $t_{AL} - 1^{\circ}C$ (differential fixed) or when the temperature difference between the two probes is less than dFr .

In APL mode, the analog output connected to a pump for the circula



Allegro 400 Raíl

Rail mounting control with 2 relays (12A) and 2 probes PTC2000 included

Ref. 20.012

2 relays 12(5)A 250V~ and 2 PTC probes with a range from -40 to +140°C Plug-in bases
Tank temperature of alarm function, adjustable, for activating cooling via the second relay
Other specifications as per Allegro 400S

Sondas



AlertSon

Visual alarm device at 230V~

Ref. 5.996

This device shows a visual alarm for contact closure in the solar system installation, cold chamber, ..., etc.
Feed: 230V~ +10%-15% 50Hz

Solar



Caudalímetro DN15 L110 120° 1/2"

Counter liters DN15 L110 120° 1/2"

Ref. 7.552

Counter liters DN15 L110 120° 1/2"

Juego de Racords 15 mm 3/4" - 1/2" tubo



Set fittings 15mm 3/4" -1/2"

Ref. 7.554

Set fittings 15mm 3/4" -1/2"



Caudalímetro DN20 L190 130° 3/4"

Counter Liters DN20 L190 130° 3/4"

Ref. 7.553

Counter Liters DN20 L130 120° 3/4"

Juego de Racords 20 mm 1" - 3/4" tubo



Set fittings 20mm 1" - 3/4"

Ref. 7.555

Set fittings 20mm 1" - 3/4"

Clima



TA 3002

Mechanical thermostat at 2 wires for heating (15A)/ cooling. Packs 15 pieces for Distributor. From only 1pc to be sold by OnLine Shop

Ref. 10.095

2-wire mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity

Ideal with underfloor electric heating

Includes standard plat and Ø60 of 85 x 85 mm

TA 3006



Mechanical thermostat for heating (15A) / cooling with accelerating resistance at 23Vac

Ref. 10.107

2-wire mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity

Ideal with underfloor electric heating

Includes standard plat and Ø60 of 85 x 85 mm

TA 3005



Mechanical thermostat with light. Heating (15A) /cooling

Ref. 10.181

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity

Includes standard plat and Ø60 of 85 x 85 mm

TA 3007



Mechanical thermostat with on/off switch, light. Heating (10A) / cooling. Packs of 15pcs for Distributor. From 1 pc to be sold by OnLine Shop

Ref. 10.096

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity

Includes standard plat and Ø60 of 85 x 85 mm



TA 3008

Mechanical thermostat with cool/off/heat (6A) switch. Packs 15 pieces for Distributor. From only 1pc to be sold by OnLine Shop

Ref. 10.097

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity

Includes standard plat and Ø60 of 85 x 85 mm



TA 3010

Mechanical thermostat with cool/off/heat (6A) switch and 2 fan speed for air conditioning

Ref. 10.111

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity

Includes standard plat and Ø60 of 85 x 85 mm



TA 3015

Electromechanical thermostat with 3 fan speeds. Thermostatic fan action. Heating (6A) / Cooling

Ref. 10.247

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1K, maximum sensitivity

Includes standard plat and Ø60 of 85 x 85 mm



TA 1002

Mechanical thermostat, 2 wires, heating (10A) / cooling. SPDT. Packs 20 units.for Distributor. From only 1 unit through OnLine Shop

Ref. 10.136

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity



TA 1007

Mechanical thermostat with switch On/Off and light. Heating (10A) / cooling. Packs 20 units.for Distributor. From only 1 unit through OnLine Shop

Ref. 10.139

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity



TA 1008

Mechanical thermostat with switch Cool/Off/ Heat. Heating (6A) / cooling. Packs 20 units.for Distributor. From only 1 unit through OnLine Shop

Ref. 10.140

Mechanical with all/nothing action and lower thermal drift

Dimensions: 76 x 76 x 38 mm

Gas membrane expansion action

Scale 6 to 30°C, including stops for blocking button by section or fixed stop

Differential less than 1 K, maximum sensitivity



TAO

Internal adjustment. Mechanical thermostat, 2 wires, heating (10A) / cooling. SPDT. Ideal for public space to avoid not authorised adjustments.

Ref. 10.241

Designed for installations in public spaces such as offices, clinics, schools ... etc. without installing accessories.

Avoid bad detection and the hassle of closing boxes with perspex

2-wire mechanical with all/nothing action and lower thermal drift

Internal regulation, ideal for public buildings

Dimensions: 76 x 76 x 30 mm

Gas membrane expansion action

Scale 6 to 30°C

Differential less than 1 K



Quad-TA230

Electronic digital thermostat at 230Vac, relay 16A. It can select heating /cooling. The wall frame Placa TA (cod. 3.970) is optional not included

Ref. 29.026

Dimensions: 76 x 76 x 30 mm. Includes standard plat and Ø60 of 85 x 85 mm

Power supply according to model 230V~ 50Hz / 12...24V~ 50Hz

Adjustable differential from 0.1 to 2°C with heating/0.2 to 2°C with cooling

Double purpose: Comfort/Economy

Regulation scale blocking

Temperature scale from 5 to 35°C

On/off & Anti-ice function from 5 to 18°CProbe calibration

Temperature display in °C or °F

“ heat “ and “ cold “ contact status indicator

Parameter-controlled cold / heat change

Ideal with underfloor electric heating



Siesta-TA ECO

Digital thermostat only Heating at 2 wires, 8A relay, powered by battery, selector stop/confort/economy. New big display

Ref. 29.066

Technical Characteristics

- Heating
- 2-wire digital thermostat
- Turn on and run
- 2-button keypad for easy and intuitive programming
- Function On / Off / antifreeze (fixed at 5°C). In Off the antifreeze function is active, it is as simple as pressing the two keys simultaneously + -
- 2 setpoints: Comfort and Economy
- Contact status indication on display heating , antifreeze
- Temperatura en °C (Celsius) ó en °F (Fahrenheit)
- Internal temperature sensor with adjustment scale 5 to 35 ° C
- Temperature in °C (Celsius) or in °F (Fahrenheit)
- Adjustable differential or at 0,5 °K or at 1 °K
- Powered by 2 batteries x 1.5V AAA, alkaline
- Maintains program in memory even without batteries
- Notice of change of batteries
- Potential free changeover relay 8 Amps
- Dimensions 100 x 80 x 20 mm, suitable for universal box



Siesta-TA

Digital thermostat at 2 wires, 8A relay, powered by battery, selector stop/confort/economy, selector heat/cool. New big display

Ref. 29.000

Dimensions: 100 x 80 x 20 mm

Power supply two 1.5 V AAA alkaline batteries

Adjustable differential from 0.1 to 2°C with heating/0.2 to 2°C with cooling

Blocking regulation scale and battery change alert "bAt"

Temperature scale from 5 to 35°C

On/off & Anti-ice function from 5 to 18°C

Double purpose: Comfort/Economy

Probe calibration

Temperature display in °C or °F

“ heat “ and “cold “ contact status indicator



Siesta-CRXE

Diary and week programmer, only for heating, Cortex technology, 8A relay, powered by battery. Program by 5+2days o 7 days week

Ref. 29.067



Daily and weekly 2 wires chronothermostat for Heating, equipped with the powerful ARM Cortex-M3, a breakthrough in technology of 32-bit architecture, it enables block programming

It combines advanced technology, with an innovative memory accelerator, which generate a high performance and low power consumption

Advanced management in on/off processes boiler that provide considerable savings and increased efficiency, up to 30% savings off others market thermostats

Technical Characteristics

- Friendly
- Automatic adjustment displacement schedule summer / winter
- Turn on and Run. Factory program, with the possibility to modify parameters (temperature and time)
- 5-button keypad
- Key Start / Stop. Keeps the antifreeze function
- Contact status indication heating / antifreeze
- 6 independent programming changes for each day
- Operation program 5 +2 days (standard); 7 days with the same programming
- Antifreeze function
- Manual operation, cancel temporarily program
- Heating
- Internal temperature sensor with a range of settings from 5 to 35°C
- Temperature in °C (Celsius) or °F (Fahrenheit)
- Differential 0,5°K
- Thermostat suitable for universal box
- Power supply 2 batteries x 1.5V AAA, alkaline
- Maintains program in memory, even without batteries
- Notice of change of batteries
- Potential free changeover relay 8 Amps
- Dimensions 100 x 80 x 20 mm

Factory Program:

Time interval	Day		Weekend	
	Monday to Friday		Hour	Temperature
1	06:00	21°C	06:00	21°C
2	08:00	17°C	08:00	19°C
3	12:00	21°C	12:00	19°C
4	15:00	17°C	15:00	19°C
5	18:00	21°C	18:00	21°C
6	22:00	15°C	23:00	15°C

These parameters can be modified, it is an example



Siesta-CRX

Diary and week programmer, for heating / cooling, Cortex technology, 8A relay.
With Password to block keyboard and to protect program, powered by battery.

Ref. 29.055

Daily and weekly chronothermostat for Heating / Cooling, equipped with the powerful ARM Cortex-M3, a breakthrough in technology of 32-bit architecture, it enables block programming

It combines advanced technology, with an innovative memory accelerator, which generate a high performance and low power consumption

Advanced management in on/off processes boiler that provide considerable savings and increased efficiency, up to 30% savings off others market thermostats

PASS security function that locks the keyboard, avoid handling and prevents access by unauthorized personnel

Technical Characteristics

- Easy of selecting at what time, what desired temperature applicable for which day (block system)
- Automatic adjustment displacement schedule summer / winter
- Manual operation, cancel temporarily program
- Heating or cooling selection keys (no need to enter programming) ideal for applications in grid / valve 3-wire (recommended by major manufacturers)
- Maintains programs and different temperatures for heating and cooling
- 5-button keypad, for easy and intuitive programming
- Lock control scale
- Up to 28 independent programming changes (daily / weekly)
- Contact status indication heating / cooling / antifreeze
- Display of relative humidity, it does not regulate by humidity
- Key Start / Stop. Keeps the antifreeze function
- Antifreeze function and Vacation (off / on schedule)
- Function circulator pump protection against blockage
- Absence program and for holiday and for guests
- Internal temperature sensor with a range of settings from 5 to 35°C
- Differential adjustable from 0.1 to 3°K in both heating and cooling
- Temperature in °C (Celsius) or °F (Fahrenheit)
- Calibration of probes
- Thermostat suitable for universal box
- Power supply 2 batteries x 1.5V AAA, alkaline
- Maintains program in memory, even without batteries
- Notice of change of batteries
- Potential free changeover relay 8 Amps
- Dimensions 100 x 80 x 20 mm



Siesta-TA ECO RF

Radio digital thermostat only Heating, Cortex technology. Emitter powered by battery, receiver powered at 230Vac and 16A SPDT relay dry contacty. New big display

Ref. 29.064

Technical Characteristics

- Heating
- Digital radio thermostat
- Turn on and run
- 2-button keypad for easy and intuitive programming
- Function On / Off / antifreeze (fixed at 5°C). In Off the antifreeze function is active, it is as simple as pressing the two keys simultaneously + -
- 2 setpoints: Comfort and Economy
- Contact status indication on display heating , cooling / antifreeze
- Internal temperature sensor with adjustment scale 5 to 35 °C
- Temperature in °C (Celsius) or in °F (Fahrenheit)
- Differential fixed or at 0,5°K or 1°K
- Radio receiver for surface mounting. Optional PLACA TA to fix over universal box (wall)
- Thermostat (transmitter) radio adaptable universal box. Optional PEANA to place on table
- Power: Thermostat (emitter) 2 batteries 1.5V AAA, alkaline
Receiver at 230Vac 50Hz

- Notice of change of batteries
- Maintains program in memory, even without batteries
- Potential free relay switched 16Amps
- Linking radio frequency factory preprogrammed
- One-way communication. 868MHz frequency band with a range of 30m in a residential environment
- Dimensions emitter 100 x 80 x 20 mm, receiver 76 x 76 x 30 mm



Siesta-TA RF

Digital radio thermostat with cortex technology, emitter powered by battery, 16A receiver relay, SPDT dry contact. Selector stop/confort/economy/ heating/cooling. Peana base (cod. 4.965) optional not included: New big display

Ref. 29.062

Technical Characteristics

- Heating and Cooling
- Digital radio thermostat
- Ideal for use in grid or 3-wire motorized valve (recommended by major manufacturers)
- Turn on and run
- 2-button keypad for easy and intuitive programming
- Function On / Off / antifreeze (5 to 18 °C). In Off the antifreeze function is active, it is as simple as pressing the two keys simultaneously + -
- 2 setpoints: Comfort and Economy
- Contact status indication on display heating , cooling , antifreeze
- Heating or cooling selection by key (no need to enter programming)
- Internal temperature sensor with adjustment scale 5 to 35 °C
- Temperature in °C (Celsius) or in °F (Fahrenheit)
- Adjustable differential on heating from 0,1 to 2 °K, on cooling of 0,2 to 2 °K
- Lock adjustment scale, by maximum and minimum selectable
- Probe calibration
- Radio receiver for surface mounting. Optional PLACA TA to fix over universal box (wall)
- Thermostat (emitter) radio adaptable universal box. Optional PEANA to place on table
- Power: Thermostat (emitter) 2 batteries 1.5V AAA, alkaline
Receiver at 230Vac 50Hz
- Notice of change of batteries
- Maintains program in memory, even without batteries
- Potential free relay switched 16Amps
- Linking Radio Frequency factory preprogrammed
- One-way communication. 868MHz frequency band with a range of 130m in open field
- Dimensions emitter 100 x 80 x 20 mm, receiver 76 x 76 x 30 mm



Siesta-CRXE RF

Daily and week radio chronothermostat at 866Mhz, wireless. Keyboard and programm blocked by PASword, emitter powered by battery, receiver at 230Vac and SPDT 16A relay. Heating only. Use 5+2 o 7 days block programming. Peana base (cod.4.965) not included

Ref. 29.060

Daily and weekly radio chronothermostat for Heating, equipped with the powerful ARM Cortex-M3, a breakthrough in technology of 32-bit architecture, it enables block programming

It combines advanced technology, with an innovative memory accelerator, which generate a high performance and low power consumption

Advanced management in on/off processes boiler that provide considerable savings and increased efficiency, up to 30%

savings off others market thermostats

Technical Characteristics

- Friendly
- Automatic adjustment displacement schedule summer / winter
- Turn on and Run. Factory program, with the possibility to modify parameters (temperature and time)
- 5-button keypad
- Key Start / Stop. Keeps the antifreeze function
- Contact status indication heating / antifreeze
- 6 independent programming changes for each day
- Operation program 5 +2 days (standard); 7 days with the same programming
- Antifreeze function
- Manual operation, cancel temporarily program
- Heating
- Internal temperature sensor with a range of settings from 5 to 35°C
- Temperature in °C (Celsius) or °F (Fahrenheit)
- Differential 0,5°K
- Radio receiver for surface mounting. Optional PLACA TA to fix over universal box (wall)
- Thermostat (transmitter) radio adaptable universal box. Optional PEANA to place on table
- Power: Thermostat (emitter) 2 batteries 1.5V AAA, alkaline
Receiver at 230Vac 50Hz
- Notice of change of batteries
- Maintains program in memory, even without batteries
- Potential free relay switched 16Amps
- Linking radio frequency factory preprogrammed
- One-way communication. 868MHz frequency band with a range of 30m in a residential environment
- Dimensions emitter 100 x 80 x 20 mm, receiver 76 x 76 x 30 mm

Factory Program:

Time interval	Day		Weekend	
	Hour	Temperature	Hour	Temperature
1	06:00	21°C	06:00	21°C
2	08:00	17°C	08:00	19°C
3	12:00	21°C	12:00	19°C
4	15:00	17°C	15:00	19°C
5				



Siesta-CRX RF

Daily and week radio chronothermostat at 866Mhz, wireless using Cortex technology. Keyboard and programm blocked by Password, emitter powered by battery, receiver at 230Vac and SPDT 16A relay. Heating and cooling. Peana base (cod. 4.965) not included

Ref. 29.057

Daily and weekly radio chronothermostat for Heating / Cooling, equipped with the powerful ARM Cortex-M3, a breakthrough in technology of 32-bit architecture, it enables block programming

It combines advanced technology, with an innovative memory accelerator, which generate a high performance and low power consumption

Advanced management in on/off processes boiler that provide considerable savings and increased efficiency, up to 30% savings off others market thermostats

PASS security function that locks the keyboard, avoid handling and prevents access by unauthorized personnel

Technical Characteristics

- Easy of selecting at what time, what desired temperature applicable for which day (block system)
- Automatic adjustment displacement schedule summer / winter
- Manual operation, cancel temporarily program
- Heating or cooling selection keys (no need to enter programming) ideal for applications in grid / valve 3-wire (recommended by major manufacturers)
- Maintains programs and different temperatures for heating and cooling
- 5-button keypad, for easy and intuitive programming
- Lock control scale
- Up to 28 independent programming changes (daily / weekly)
- Contact status indication heating / cooling / antifreeze
- Display of relative humidity, it does not regulate by humidity
- Key Start / Stop. Keeps the antifreeze function
- Antifreeze function and Vacation (off / on schedule)
- Function circulator pump protection against blockage
- Absence program and for holiday and for guests
- Internal temperature sensor with a range of settings from 5 to 35°C
- Differential adjustable from 0.1 to 3°K in both heating and cooling
- Temperature in °C (Celsius) or °F (Fahrenheit)
- Calibration of probes
- Radio receiver for surface mounting. Optional PLACA TA to fix over universal box (wall)
- Thermostat (emitter) radio adaptable universal box. Optional PEANA to place on table
- Power: Thermostat (emitter) 2 batteries 1.5V AAA, alkaline
Receiver at 230Vac 50Hz
- Notice of change of batteries
- Potential free relay switched 16Amps
- Linking Radio Frequency factory preprogrammed
- One-way communication. 868MHz frequency band with a range of 130m in open field
- Dimensions emitter 100 x 80 x 20 mm, receiver 76 x 76 x 30 mm



T908 WIFI

Wifi Chronothermostat weekly and daily

Ref. 12.061

Weekly wifi chronothermostat

Control the comfort of your home from the mobile

It is a daily and weekly thermostat controlled from your mobile phone through the home wireless network.

Application: allows you to activate, deactivate and program your heating. Be it a wall boiler, electric radiators (by contactor), etc.

Can be equipped with a remote probe for the control of radiant floors, optional not included

Technical Features

- Powered to 230Vac, 3A resistive potential free relay
- Operable both manually and over the phone.
- Allows up to 6 changes per day and can be different every day
- Temperature control by the internal sensor of the device
- Available free app compatible with Android and iOS devices

Placa TA



Wall frame optional for serie TA1000 and TA3000. Compatible with standard European wall boxes 60mm.

Ref. 3.970

Trim plate for any thermostat from the TA 1000 and TA 3000 series
Boreholes adapt to all kinds of Ø 60 mm built-in boxes
Injected with the same material and colour as the rest of the range
Includes 2 thermostat-plate fastening bolts

Peana



Optional base to keep emitter Siesta-TA RF/ -TA ECO RF /-CRX RF / -CRXE RF in vertical position over a table

Ref. 4.965

Quad-HR



Humidity digital control, you control at same time temperature and humidity, scale from 20% to 80%, 16A relay. Placa TA, wall frame, is an optional not included (cod. 3.970)

Ref. 29.033

Makes it possible to set up control with 4 different regulation modes:

Heating - controls heating, shows humidity, but does not regulate it

Humidifier - controls humidity, shows temperature, but does not regulate it

Cooling - controls air conditioning temperature, shows humidity, but does not regulate it

Climatization (controls degree of comfort) - shows and controls, air conditioning temperature and humidity. Stop to what happens by before either temperature or relative air humidity. Dehumidified.

Trim plate for Ø60 box included. Measurements 85 x 85 mm

Measures: 76 x 76 x 35 mm

Power Supply: 230V~ 50Hz

Relative Humidity Scale: from 20% to 80%

Temperature Scale: 0°C to 45°C

Settings can be regulated

Setting differential

Relay 16A

Moderato - RD



Analogic digital thermostat for underfloor heating, double sensor, ambiance and floor. Relay 16A. External PTC probe double insulated 3m included. Powered at 230Vac, heating /cooling. Placa TA, wall frame, is an optional not included (cod. 3.970)

Ref. 29.045

Includes 2 probes that can be calibrated separately

Measures: 76 x 76 x 35 mm. Trim plate for Ø60 box included. Measurements 85 x 85 mm

Internal probe for ambient temperature (regulates economy and comfort temperature)

Probe at a distance of 3 m to limit floor temperature, with adjustable differential

Other specifications as per Moderato-TA



Quad-RD230

Digital thermostat for underfloor heating/refreshing, double sensor, 16A relay, PTC probe double insulated, 3m. Powered at 230Vac. Heating /cooling. Placa TA, wall frame, is an optional not included (cod. 3.970)

Ref. 29.035

Includes 2 probes that can be calibrated separately

Measures: 76 x 76 x 35 mm. Trim plate for Ø60 box included. Measurements 85 x 85 mm

Internal probe for ambient temperature (regulates economy and comfort temperature)

Probe at a distance of 3 m to limit floor temperature, with adjustable differential

Other specifications as per Quad-TA

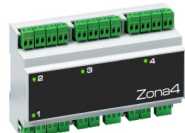


Siesta-CRX RD Radiante

Dialy and week chronothermostat with double sensor, ambiance and floor. Cortex technology, NTC probe 3m included. Heating /cooling. 8A relay. Powered by battery

Ref. 29.069

Zona 4



4 timed areas. 2 relays 12A to separate boiler voltage respect pump voltage. Intelligent control valves for hydraulic underfloor heating powered at 230V ~ with 4 areas

Ref. 26.206

Rail format control for 4, 8 or 9 zones according to the model, with wiring installation and protection fuse. Automatically detects the start up order coming from any thermostat and when all have reached a comfort level the boiler pumps stops, which means greater savings and less noise.

Outlet Relay: Equipment with 2 outlet free potential relays to start-up and stop the "pump" with two possible different tensions. E.g., the recirculating pump can have a 230Vac feed, whereas the other relay activates a wall boiler (24V).

Thermostat Inputs: Can have 4, 8 or 9 thermal zones, compatible with mechanical, battery or 230Vac power feed thermostats. For a 24 V version consult the factory.

Outputs to Thermal Heads: Each thermal zone controlled by a thermostat can simultaneously activate up to 2 thermal heads

- Zone 4: 9 module Rail-DIN box

- Zone 8: 18 module Rail-DIN box

- Zone 9: 9 module Rail-DIN box

- Without need for programming, it activates the recirculation pump only when any of the valves should need it.

- Possibility of direct valve and thermostat feed or possibility of creating an A hour zone from another different B hour zone

- Maximum pump supply: 12A

- Protection fuse

Zona 9



9 zones. 2 Relays 12A to separate power supply of pump and heater. Smart valves control at 230Vac for hydraulic underfloor heating for several (9) zones

Ref. 26.213

Rail format control for 4, 8 or 9 zones according to the model, with wiring installation and protection fuse. Automatically detects the start up order coming from any thermostat and when all have reached a comfort level the boiler pumps stops, which means greater savings and less noise.

Outlet Relay: Equipment with 2 outlet free potential relays to start-up and stop the "pump" with two possible different



tensions. E.g., the recirculating pump can have a 230Vac feed, whereas the other relay activates a wall boiler (24V).
Thermostat Inputs: Can have 4, 8 or 9 thermal zones, compatible with mechanical, battery or 230Vac power feed thermostats. For a 24 V version consult the factory.

Outputs to Thermal Heads: Each thermal zone controlled by a thermostat can simultaneously activate up to 2 thermal heads

- Zone 4: 9 module Rail-DIN box- Zone 8: 18 module Rail-DIN box
- Zone 9: 9 module Rail-DIN box
- Without need for programming, it activates the recirculation pump only when any of the valves should need it.
- Possibility of direct valve and thermostat feed or possibility of creating an A hour zone from another different B hour zone
- Maximum pump supply: 12A
- Protection fuse

Control Zona 6



Waterproof Installation IP65. Relay 12A. Intelligent control valves for hydraulic underfloor heating powered at 230V ~ with 6 areas. Until end of stock

Ref. 26.201

Automatically detects the start up order coming from any thermostat and activates the zone valve and the circulation pump. When all have reached their comfort level, the boiler pump stops, which means greater savings and less noise.- Small-size ABS box for simple installation, also in manifold box- No programming, the recirculation pump is enabled only when required by the valves.- Consumption: 0.75 VA- Pump max. supply: 12A



Siesta-TA ECO RF Emisor

Digital thermostat, heating only, Cortex technology. Battery transmitter. Zone 6 RF receiver (code 26.224) and Peana (cod.4.965) optional not included

Ref. 29.082

Technical Features

- Heating
- Digital radio thermostat
- Turn On and Run
- 2-button keyboard for easy and intuitive programming
- Stop / Start / anti-freeze function (fixed at 5 ° C). In Stop, the antifreeze function is kept active, it is as simple as pressing both keys simultaneously + -
- 2 setpoints: Comfort and Economy
- Heating status indication
- Internal temperature sensor with adjustment scale 5 to 35 °
- Temperature in ° C (Celsius) or in ° F (Fahrenheit)
- Fixed differential 0,5 ° K or 1 ° K
- Zone 6 RF radio receiver (cod. 26.224) not included, for rail mounting.
- Thermostat (emitter) radio adaptable to universal box. Optional PEANA for table placement
- Power supply:
 - Thermostat (emitter) 2 batteries 1.5V type AAA, alkaline
 - 230Vac 50Hz Receiver
- Battery change notice
- Keeps programming in memory, even without batteries
- Unidirectional communication. 868MHz frequency band with 30m range in a residential environment
- Emitter Dimensions 100 x 80 x 20 mms



Siesta-TA RF Emisor

Digital thermostat Cortex technology radio, battery transmitter, relay receiver free of potential. Stop / comfort / economy selector, heating / cooling. Peana (cod.4.965) optional not included

Ref. 29.083

Technical Features

- Heating and Cooling
- Digital radio thermostat
- Ideal for use on grille or motorized 3-wire valve (recommended by major manufacturers)
- Turn On and Run
- 2-button keyboard for easy and intuitive programming
- Stop / Start / antifreeze function (5 to 18 ° C). In Stop (Off), the antifreeze function is kept active, it is as simple as pressing both keys simultaneously + -
- 2 setpoints: Comfort and Economy
- Indication of contact status heating, cooling
- Selection of heating or cooling by key (without entering programming)
- Internal temperature sensor with regulation scale 5 to 35 ° C
- Temperature in ° C (Celsius) or in ° F (Fahrenheit)
- Adjustable differential in heating from 0.1 to 2 ° K; In cooling from 0.2 to 2 ° K
- Scale locking of regulation, by maximum and by selectable minimum
- Probe Calibration
- Zone 6RF radio receiver (cod. 26.224) for rail mounting.
- Thermostat (emitter) radio adaptable to universal box. Optional PEANA for table placement
- Power supply:
 - Thermostat (emitter) 2 batteries 1.5V type AAA, alkaline
 - 230Vac 50Hz Receiver
- Keeps programming in memory, even without batteries
- Battery change notice
- Unidirectional communication. 868MHz frequency band with 130m range in open field
- Emitter dimensions 100 x 80 x 20 mm



Siesta-CRXE RF Emisor

Daily and weekly chronothermostat only heating to 868MHz radio. Cortex technology. Battery transmitter and receiver at 230Vac. Works by block of days 5 + 2 or 7. Stand (cod.4.965) not included

Ref. 29.084

Daily and weekly radio chronothermostat for heating, equipped with the powerful ARM Cortex-M3 processor, a breakthrough in technology and 32-bit architecture, this allows programming in intervals.

It combines advanced technology with an innovative memory accelerator, which generate high performance and low power consumption.

Advanced management of the boiler's on / off processes that give you considerable savings and efficiency, up to 30% savings compared to other market thermostats

Technical Features

- Easy to use
- Automatic adjustment of summer / winter time offset
- Power On and Off. Factory program, with possibility to modify parameters (temperature and time)
- 5-button keyboard
- Start / Stop button. Keeps antifreeze function active
- Heating / anti-frost contact status indication



- 6 independent programming changes per day
- Program operation 5 + 2 days (standard); 7 days with the same programming
- Anti-freeze function
- Manual operation, temporarily canceling programming
- Only Heating
- Adjustment temperature range 5 to 35 ° C
- Temperature in ° C (Celsius) or in ° F (Fahrenheit)
- Differential 0.5 ° K
- Radio receiver for rail mounting. Not included
- Thermostat (emitter) radio adaptable to universal box. Optional PEANA for table placement
- Power Supply:
Thermostat (emitter) 2 batteries 1.5V type AAA, alkaline
230Vac 50Hz Receiver
- Battery change notice
- Keeps programming in memory, even without batteries
- Potential-free relay in receiver.
- Radio Linking Factory Preset Frequency
- Unidirectional communication. Frequency band 868 MHz, with a range of 30m in a residential environment
- Emitter dimensions 100 x 80 x 20 mm

 Factory Programming:

Time Range	Daily		Weekend	
	Time	Temperature	Time	Temperature
1	06:00	21°C	06:00	21°C
2	08:00	17°C	08:00	19°C
3	12:00	21°C	12:00	19°C
4	15:00	17°C	15:00	19°C



Siesta-CRX RF Emisor

Chronothermostat daily and weekly to radio 868Mhz, wireless technology Cortex, Con Pas keypad lock and programming protection, battery transmitter, receiver to 230Vac.Heating and cooling.Peana (cod.4.965) not included

Ref. 29.085

Daily and weekly radio chronothermostat for Heating / Cooling, equipped with the powerful ARM Cortex-M3 processor, a breakthrough in technology and 32-bit architecture, this allows programming by blocks

It combines advanced technology with an innovative memory accelerator, which generate high performance and low power consumption.

Advanced management of the boiler's on / off processes that give you considerable savings and efficiency, up to 30% savings compared to other market thermostats

PASS security function that locks the keyboard, prevents manipulation and access by unauthorized personnel

Technical Features

- Easy to select at what time, what desired temperature, applicable on what day (block system)
- Automatic adjustment of summer / winter time offset
- Manual operation, temporarily canceling programming
- Choice of heating or cooling (no programming required) ideal for 3-wire grid / valve applications (recommended by leading manufacturers)
- Maintains different programs and temperatures for heating and cooling
- 5-button keyboard for easy and intuitive programming
- Scale locking adjustment
- Up to 28 independent schedule changes (daily / weekly)

- Heating / cooling / anti-frost contact status display
- Indication of relative humidity, does not regulate humidity
- Start / Stop button. Keeps antifreeze function active
- Anti-freeze and holiday function (off / on programmed)
- Protection function of the circulating pump against locks
- Absence program for holidays and guests
- Internal temperature sensor with regulation range from 5 to 35 ° C
- Adjustable differential from 0.1 to 3K in both heating and cooling.
- Temperature in ° C (Celsius) or in ° F (Fahrenheit)
- Calibration of probes
- Radio receiver for rail mounting not included
- Thermostat (emitter) radio adaptable to universal box. Optional PEANA for table placement
- Power supply:
 - Thermostat (emitter) 2 batteries 1.5V type AAA, alkaline
 - 230Vac 50Hz Receiver
- Battery change notice
- Keeps programming in memory, even without batteries



Zona 6 RF Receptor radio

Radio receiver for 6 zones compatible with the Siesta control family

Ref. 26.224

It is the receiver by radio frequency for 6 zones of underfloor either for heating or for cooling. The kit consists of the various emitters indicated in the Siesta family and the Zone 6 RF.

This control is compatible with the following equipment: Siesta-TA ECO RF Emitter (ref 29.082), Siesta-TA RF Emitter (ref. 29.083), Siesta-CRXE RF Emitter (ref.29.084) and Siesta-CRX RF Emitter (ref. 29,085).

It is a solution that saves the professional wiring and the user gives the comfort of being able to place the thermostat sensor (emitter) in the point of the room that represents you for saving and comfort.

Technical Features

- Heating / Cooling. Relé 10A
- Dimensions: 65x90x40mm
- Power supply: 230V ~ + 10% -15% 50 / 60Hz
- 1 relay SPST for pump and 1 relay for heater of 5 to 250V ~
- LED indication zone coding
- Led Power Indication
- Activated LED for each zone, total 6
- Manual push button to activate or link emitter with receiver area
- 10A electrical protection fuse

Accessory:

Peana (ref.4.965) to put thermostat on tables, furniture, etc.



Siesta-CRX RD Exterior (se compone de 3 códigos)

Daily and week chronothermostat, with external sensor (not included) and internal sensor. Ideal to meet ErP Classification IV (=2%). 8A relay, heating and cooling. Ask for cod. 7.343 separately, it is sensor 1m WITH FEMALE PLUG x meters you need

Ref. 29.070



Daily and weekly chronothermostat for Heating / Cooling, equipped with the powerful ARM Cortex-M3 processor, a breakthrough in technology and 32-bit architecture, this allows programming by blocks

It combines advanced technology with an innovative memory accelerator, generating high performance and low power consumption.

Advanced management of the boiler's on / off processes that give you considerable savings and efficiency, up to 30% savings compared to other market thermostats

PASS security function that locks the keyboard, prevents manipulation and access by unauthorized personnel

By means of the fuzzy-logic algorithm, it makes a prediction of the heating needs in the house, so that it is anticipated according to the temperatures detected in the exterior with respect to the existing ones in the interior, thereby generating greater savings and comfort to the Users of housing. No matter the type of heating used, since the algorithm itself along with the technology of this chronothermostat, learns so that each cycle is fine tuned. The greatest saving is achieved in the installations of floors radiant because of their great inertia, but it is applicable to all heating or air conditioning system

The fuzzy-logic system can be operated both with and without external probe, with external probe much more precise

Technical Features

- Easy to select at what time, what desired temperature, applicable on what day (block system)
- Automatic adjustment of summer / winter time offset
- Manual operation, temporarily canceling programming.
- Choice of heating or key cooling (no programming required) ideal for 3-wire grid / valve applications (recommended by leading manufacturers)
- Maintains different programs and temperatures for heating and cooling
- 5-button keyboard for easy and intuitive programming
- Scale locking adjustment
- Up to 28 independent schedule changes (daily / weekly)
- Heating / cooling / anti-frost contact status display
- Indication of relative humidity, not regulated by humidity
- Start / Stop button. Keeps antifreeze function active
- Anti-freeze and holiday function (off / on programmed)
- Protection function of the circulating pump against locks
- Absence program for vacations and guests
- Internal temperature sensor with regulation range from 5 to 35

Sondas

Metro de cable silicona CON ENCHUFE HEMBRA



1m of silicone wire with NTC probe with FEMALE PLUG, it is needed for its connection, to make longer wire probe in models Siesta-CRX RD Exterior or RD Remoto. Please indicate total meters you need each sensor.

Ref. 7.343

Clima



Siesta-CRX RD Remoto (se compone de 3 códigos)

Daily and weekly chronothermostat, internal ambience sensor and remote sensor, not included. Powered by battery, 8A relay. Remember to buy cod. 7.343 1m wire sensor with FEMALE PLUG x meters in your installation and cod. 7.494 or cod 7.346 + cod.3.970

Ref. 29.068

Daily and weekly chronothermostat for Heating / Cooling, equipped with the powerful ARM Cortex-M3 processor, a

breakthrough in technology and 32-bit architecture, this allows programming by blocks

It combines advanced technology with an innovative memory accelerator, generating high performance and low power consumption.

Advanced management of the boiler's on / off processes that give you considerable savings and efficiency, up to 30% savings compared to other market thermostats

PASS security function that locks the keyboard, prevents manipulation and access by unauthorized personnel

Ideal for use in public spaces such as schools, offices, hospitals, hostels, rural houses, it allows a remote reading in the place where it is desired to control temperature and / or programming, generate savings and comfort, without That control can be manipulated, it can be located in a space for authorized personnel, technical room, control cabinet, etc.

Technical Features

- Easy to select at what time, what desired temperature, applicable on what day (block system)
- Automatic adjustment of summer / winter time offset
- Manual operation, temporarily canceling programming.
- Choice of heating or cooling key (no programming required) ideal for 3-wire grid / valve applications (recommended by leading manufacturers)
- Maintains different programs and temperatures for heating and cooling
- 5-button keyboard for easy and intuitive programming
- Scale locking adjustment
- Up to 28 independent schedule changes (daily / weekly)
- Heating / cooling / anti-frost contact status display
- Relative humidity indication, non-humidity regulation, relative humidity is local, not remote
- Start / Stop button. Keeps antifreeze function active
- Anti-freeze and holiday function (off / on programmed)
- Protection function of the circulating pump against locks
- Absence program for vacations and guests
- Internal temperature sensor with regulation range from 5 to 35 °C
- Differential adjustable from 0.1 to 3K in both heating and cooling
- Temperature in °C (Celsius) or in °F (Fahrenheit)
- Calibration of probes
- Thermostat adaptable to universal cabinet
- Power supply to 2 1.5V AAA alkaline batteries
- Keeps programming in memory, even without batteries
- Battery

Sondas

Termoretractil



1 lineal meter with 4,8mm diameter, to be used to join for joints with tin solder and heat to shrink. Ideal for cable connections extended probes. Professional results

Ref. 7.344

Clima

Ventil 1M



Electromechanical fancoil thermostat for 2 pipes. Relay 8(5)A. Off/on selector. Heat/cool selector. 3 fan speeds selector. Thermostatic or continuous fan

Ref. 10.083

Dimensions: 125 x 77 x 37 mm

Mains supply 230V~ 50/60 Hz

On/off switch, cold/heat/fan only selector switch and fan speed selector I, II, III (optional connection thermostatic or continuous fan)

Pilot lights: On and contact closed

Scale 6 to 30°C. Dial with 2 stops for blocking temperature

Differential 0.5 K

Ventil 1D



Digital electronic fan coil thermostat for 2 and 4 pipes, Powered at 110-230Vac.
Master input wire available. Distance sensor input available, not included, PTC2000
type, sample cod. 5.266+3.970 or 5.770

Ref. 10.269

It is a control for fan coil equipped with powerful ARM Cortex-M0 processor, a breakthrough in technology and 32-bit architecture. Thanks its advanced technology, it generates high efficiency and achieves a low power consumption of the facility, with maximum comfort.

Installing a Ventil 1D get an optimized management processes of on / off from air conditioning machine that provide significant additional savings, up to 30% savings over other market thermostats.

Technical Features

- Digital control over fan speeds and Stop / Start
- Power supply, look model, from 90Va...250Vac 50/60Hz (code 10.269) or 24Vac 50/60Hz (code 10.270)
- The display at stop position indicates OFF. In operation it indicates the temperature (on) and Speed
- 4 digital buttons. Without mechanical switches
- Temperature in °C (Celsius) or °F (Fahrenheit)
- Wire and Play
- You can manage or local room temperature or remote room temperature
- Suitable for heating and / or cooling
- Control centralizado del cambio Calefacción/Refrigeración de modo remoto por planta construida (o sector) mediante entrada adicional para un interruptor externo
- When you have a built plant (or sector) you can manage remotely the change from Heating mode to Cooling or reverse at the same time all thermostats by additional input included from factory for an external switch as selector.
- Manage systems with 1 or 2 valves without programming, using microswitches, (installations of 2 or 4 tubes respectively)
- Fan speed setting (as chosen scheme)
- Automatic fan speed adjustment, as far is the setpoint from the detected temperature, the fan will run at maximum speed, and it will reduce speed as room temperature is much more approach of the setpoint
- In 4 pipe installations may select the Neutral Zone in 2K or 4K
- Display show thermostat is running in heating or cooling
- Ability to manually force ventilation (in this case the fan is linked off from thermostatic action)
- In automatic position the fan runs thermostatic mode (linked to the thermostat)
- Thanks device uses different relays not powered internally, although the thermostat is powered itself 90Vac ... 250Vac 50 / 60Hz, the fan can be of different voltage, AC or DC, as happens with the valve
- The remote probe voids inside sensors thermostat
- When it is used the remote selector to change cold / heat, this a

Ventil 1D 2CC



Ideal Hotels. Digital thermostat, 2 inputs per contact closure for air conditioning
control by both window and door opening

Ref. 10.271

Digital thermostat, 2 inputs by closing of contacts for control of the air conditioning both by opening of window, as of door (contact window and contact card).

It is a hotel control, equipped with the powerful ARM Cortex-M0 processor, a breakthrough in technology and 32-bit architecture.

Thanks to its advanced technology, it generates high efficiency and achieves a low energy consumption of the installation, with maximum level of comfort.

Installing a 1D2CC Ventilator gives optimized management of the on / off processes of the air conditioner, which gives you a considerable saving, up to 30% savings compared to other thermostats on the market.

Technical Features

- Digital control for valve 2 tubes, heating / cooling and / or fan and Stop / General operation.
- Power supply according to model 90Vac ... 250Vac 50 / 60Hz (code 10.271)
- The display in stop position indicates OFF. In operation it indicates the Temperature
- 2 digital buttons. Without mechanical switches
- Temperature in °C (Celsius) or in °F (Fahrenheit)
- Power On and use
- Adjusts the local ambient temperature
- Suitable for heating or cooling installations
- Contact window, in case of opening it interrupts the air conditioning and goes to stop.
- Contact card holder in case of opening, goes to factory preset at 17°C (other values ask to factory)
- Indication of heating or cooling operation
- Internal temperature sensor with scale from 0 to 50 °C
- Differential heating and cooling of 0.5 °K
- Standard: External input to remotely make summer / winter changeover in a relay diagram
- Display 26 x 12.5mm
- User regulation range 5°C to 30°C (41°F to 86°F)
- 5A relay, potential free
- Dimensions 125 x 77 x 35mm (4.92 x 3.03 x 1.41 inch)

Ventil 1D 3P



Digital thermostat at 230V, with contact card holder, window contact, 2 tubes at 3 points or on / off and 4 tubes on / off. Possibility of remote probe and change from winter to summer by master wire.

Ref. 10.400

Contact window, its activation stop the system

Contact door (card holder), its activation reduces the setpoint to 17°C

Activated valves: in 2 tubes or 3 points or all / none. In 4 tubes all / nothing action

Valve action is performed with 1A triac.

Possibility to pass all to cold position or heat by means of a pilot wire

Possibility to connect remote probe

3-speed fan

Stop / run

230Vac operating voltage

Ventil 1D Crono 3P



Digital chronothermostat 230V, with contact card holder, window contact, 2 tubes with 3 points or on / off and 4 tubes on / off. Possibility of remote probe and change from winter to summer by master wire.

Ref. 10.401

Possibility of daily and weekly programming
Contact window, its activation stop the system
Contact door (card holder), its activation reduces the setpoint to 17°C
Activated valves: in 2 tubes or 3 points or all / none. In 4 tubes all / nothing action
Valve action is performed with 1A triac.
Possibility to pass all to cold position or heat by means of a pilot wire
Possibility to connect remote probe
3-speed fan
Stop / run
230Vac operating voltage

Ventil 1D PWM



Digital thermostat at 230Vac, 3 fan speeds, in 2 tubes pwm action or 3 points or all / none and in 4 tubes action all / none. Contact window and door. Possibility of remote probe and summer changeover by master wire.

Ref. 10.404

Contact window, its activation stop the system
Contact door (card holder), its activation reduces the setpoint to 17°C
Activated valves: in 2 tubes or 3 points or all / none or PWM. In 4 tubes all / nothing action
Valve action is performed with 1A triac.
Possibility to pass all to cold position or heat by means of a pilot wire
Possibility to connect remote probe
3-speed fan
Stop / run
230Vac operating voltage

Ventil 1D Crono PWM



Digital week chronothermostat at 230Vac, 3 fan speeds, in 2 tubes pwm action or 3 points or all / none and in 4 tubes action all / none. Contact window and door. Possibility of remote probe and summer changeover by master wire.

Ref. 10.405

Possibility of daily and weekly programming
Contact window, its activation stop the system
Contact door (card holder), its activation reduces the setpoint to 17°C
Activated valves: in 2 tubes or 3 points or all / none or PWM. In 4 tubes all / nothing action
Valve action is performed with 1A triac.
Possibility to pass all to cold position or heat by means of a pilot wire
Possibility to connect remote probe
3-speed fan
Stop / run
230Vac operating voltage

Industria

ECS 57



Surface mounting thermostat, 1 probe and 1 relay. Powered at 230Vac. Heating/Cooling, 10A relay, probe included type PTC2000 of 1,5m prolongable hasta 100m. Con PIN bloqueo. Rango -40° a +140°C

Ref. 26.129

Dimensions: 65 x 90 x 40 mm
Power supply: 230V~ +10%-15% 50/60 Hz

1 PTC probe 1.5m calibration option.

Range -40 to +140°C

1 switched relay 10(5)A 250V~

Differential regulation

With compressor protection for minimum disconnection time between two start-ups

Defrost timer

PASSWORD for data protection



Bio 25

Control for Biomass boilers. Maximum differential 25°C. Relay 10A, PTC2000 probe of 1,5m included

Ref. 26.222

Dimensions: 65 x 90 x 40 mm

Power: 230V ~ + 10% -15% 50 / 60Hz

1 PTC2000 probe of 1.5m calibrable, included.

Range -40 to + 140 ° C

1 relay SPDT 10 (5) A 250V ~

Differential adjustment from 0 to 25°

With compressor protection for minimum time of disconnection between 2 starts

Defrost timing.

PASSWORD for data protection



LTH-6

Smoke Temperature Limiter, Pirostato, electronic, thermometer and adjustable thermostat 200 to 240°C. It includes PT1000 probe of 3m high temperature and steel sheath with plate. Compliant with the OBLIGED COMPLIANCE standard in boilers over 70 KW

Ref. 23.005

Technical characteristics

- Digital thermostat for high temperatures. Configurable from 200°C to 240°C.
- Manual reset thermostat, with burner locking device when exceeding the maximum authorized temperature. The blocking is maintained regardless of any power cuts.
- Indicator thermometer with scale from 0° to 600°C
- Manual reset button, authorizes the operation again, if the anomaly has been previously corrected
- Relay from 10A to 230Vac and potential free contacts
- Surface mounting, through 2 holes for 4mm diameter screws (M4)
- Ideal for centralized heating installations
- Pre-connection for installation of a remote reset.
- Possibility of reception of alarm by activation of the limiting thermostat by sending SMS message, consult Telcan range (ref 19,077, 19,078, 19,079), together with the Relay (ref.4.210).
- Probe included PT1000 high temperature range 0° to 600°C, length 3m. Insert in chimney inside sheath
- Stainless steel sheath 10mm in diameter, 220mm length, with clamping plate for easy fixing. INCLUDED
- In accordance with UNE EN 60730
- It is the complete solution to the current regulations
- Made with long-lasting materials, ABS plastic case.
- Maximum storage and transport temperature 60°C
- 3 year warranty



Legionelus 70

High temperature cycles programmer, 10A relay. Real time clock

Ref. 26.161

Dimensions: 65 x 90 x 40 mm

Power supply: 230V~ +10%-15% 50/60 Hz

1 relay 12(5)A 250V~

1.5 m PTC probe. Range -40 to +140°C

Performs regular automatic cleaning by increasing the installation temperature during an adjustable time. This cleans the conduits through which the domestic hot water circulates and accumulates, only in installations with recirculation. E.g. Every seven days, the installation temperature rises from 60°C to 70°C for a two-hour period. If the objective is not achieved, it is indicated on display with ELG.

High-temperature cycles in manual or automatic mode

Also works with thermostats with settings between 10 and 95°C

PIN function for keypad blocking and protection.



Legionelus 70 Rail

High temperature cycles programmer with support for, 2 Relays 12A. Real time clock

Ref. 26.178

Dimensions: RAIL 70 x 90 x 58 mm / BOX 200 x 123 x 112 mm

Power supply: 230V~ +10%-15% 50/60 Hz

Second relay for supporting the high-temperature cycle: 12(5)A 250V~

Internal clock in real-time and 300 hours' autonomy

Other specifications as per Legionelus 70



Rail 311 HR Humidostato / Higrostat

Humidity and temperature control for rail mounting for electric board (racks)

Ref. 26.223

Control the climate of your cabinets

Application:

The mechanisms of an electric cabinet must function reliably over time for all kinds of climates. It is therefore necessary to maintain them within the optimum range of temperatures and humidity. The Rail 311-HR measures and limits temperature and humidity to the values that you select.

What is it?:

It is a digital control, with internal measurement of temperature and humidity. Provided with a relay. The desired values are selected as limits. This can be activated either by the value previously reached, be it temperature or the selected humidity. The unique relay of the Rail 311-HR will activate the fan, resistance or weather equipment that is connected to it.

Technical Features

- Configurable in 4 different control modes: Heating, Humidification, Refrigeration and Air Conditioning (Dehumidifies).
- Heating: controls heating, visualizes humidity, but does not regulate it.
- Humidification: controls humidity, displays temperature, but does not regulate it.
- Cooling: controls the temperature of the air conditioner, visualizes humidity, but does not regulate it.

- Air conditioning (Dehumidifies, gives control degree of comfort): visualizes and controls the temperature of the air conditioning and humidity. For whatever you reach before, be it temperature or degree of humidity.
- Power supply 230Vac 50Hz
- Relative humidity range 20% to 80%
- Temperature range 0°C to 45°C
- Adjustable set point
- 1 Relay of 16A



Rail 311

Rail mounting thermostat. Power Supply to 230V~. 1 Relay 12A , includes PTC2000 probe 1,5m. Range from -40 to +140°C

Ref. 26.207

Thermostat, general use

Format: 4 module Rail

Power Supply: 230V~ +10%-15% 50/60Hz

Relays 12(5)A 250V~

1 PTC2000 probe 1.5m calibration option.

Regulation scale: -40 to +140°C.

PASSWORD for data protection



Rail 322

2 Independent rail mounting thermostats. Powered at 230V~. 2 Relays 12A, 2 probes PTC2000, include 1 unit of 1,5m. For other probe order cod.4.343. It can run as 1 probe and 2 step thermostat (cool/cool, heat/neutral zone/cool and heat/heat)

Ref. 26.205

Electronic control with 2,3 or 4 independently programmable thermostats. Independent or interdependent function possible, as stages or alarms.

- Format: 4 module Rail

- Power Supply: 230V~ +10%-15% 50/60Hz

- Relays of 12(5)A 250V~ and 5(1)A 250V~

- PTC2000 probes L = 1.5m calibration option

- Regulation scale: -40 to +140°C

- PASSWORD for data protection



Rail 333

3 Independent rail mounting thermostats, o used as steps. Powered at 230V~. 3 Relays: 2 of 5A and 1 of 12A. Maximum 3 probes PTC2000, it comes with 1 unit of 1,5m. For more order cod.4.343

Ref. 26.202

Electronic control with 2,3 or 4 independently programmable thermostats. Independent or interdependent function possible, as stages or alarms.

- Format: 4 module Rail

- Power Supply: 230V~ +10%-15% 50/60Hz

- Relays of 12(5)A 250V~ and 5(1)A 250V~

- PTC2000 probes L = 1.5m calibration option

- Regulation scale: -40 to +140°C

- PASSWORD for data protection

Rail 344



Up to 4 independent thermostats, rail mounting, 230Vac powered, 4 relays of 5A, 4 probes PTC2000 type, only 1ut of 1,5m is included, for more probes order code 4.343

Ref. 26.203

Electronic control with 2,3 or 4 independently programmable thermostats. Independent or interdependent function possible, as stages or alarms.

- Format: 4 module Rail
- Power Supply: 230V~ +10%-15% 50/60Hz
- Relays of 12(5)A 250V~ and 5(1)A 250V~
- PTC2000 probes L = 1.5m calibration option
- Regulation scale: -40 to +140°C
- PASSWORD for data protection

Piro



Digital thermostat for high temperatures, from -40° to 850°C. Surface mounting. It comes with 1 probe and 1 relay at 230V ~. Heating / cooling, relay 10A, probe included PT1000 of 3m (range 0 to 600°C)

Ref. 26.130

Rail 311 Piro



Digital thermostat for high temperatures, from -40° to 850°C. Rail mounting in electrical panel. It comes with 1 probe and 1 relay at 230V ~. Heating / cooling, relay 10A, probe included PT1000 of 3m (range 0 to 600°C)

Ref. 26.131

Rail 333 Piro



3 independent thermostat, rail mounting, to be used for High temperature applications, 3 probes type PT1000 (extendable) and 3 relays: 1 of 5A and 2 of 12A, only 1 probe PT1000 (0 to 600°C) high temperature is included. For more probes order code 5.902.

Ref. 26.204

Electronic oven controller, pyrostats and high temperature applications. Independent or interdependent function possible, as stages or alarms.

- Measurements: device 70 x 28 x 67,5 mm
- Regulation scale: 0°C to 600°C
- Power Supply: 230V~ +10%-15% 50/60Hz
- 2 relays of 12A and 1 relay of 5A
- 3 Inputs for PT1000 high temperature probe. 1 Probe included (See page 88)
- PASSWORD for data protection

KA-S1 Piro



Industrial high temperature waterproof thermostat, up to 3 probes and 3 relays. They are 3 independents thermostats. Scale 0° to 600°C, included 1 probe PT1000 of 3m high temp. Relay 2ut of 5A+1ut of 12A. IP65

Ref. 24.050

Electronic oven controller, pyrostats and high temperature applications
3 Inputs for PT1000 high temperature probe. 1 Probe included (See page 88)
Format: 4 module Rail

Dimensions: 200 x 123 x 112 mm

Power Supply: 230V~ +10%-15% 50/60Hz 2 Relays of 12(5)A 250V~ . Switched SPDT

1 Relay of 5(1)A 250V~ . Switched SPST

3 PT1000 probes, calibration option Regulation scale: 0 to +600°C, with decimal

PASSWORD for data protection



Grapa

Rail-DIN fastening accessory. Transform from surface mounting to rail mounting your device, as sample, code 26.129

Ref. 3.907

EC 230-331



Built thermostat, 3 inputs (probe or close contacts), 1 relay 16A, 1 NTC of 1,5m probe included. Scale from -50°C to +120°C, also read PTC2000. For IP65 surface mounting, it is optional order code 7.637

Ref. 26.215

control multi NTC, PTC probe and contact closure

Built in mounting, to fit in machine, multivoltage 110 a 230V~ or 12/24Vac/dc (depending on model), from 1 to 2 relays, display with icons, up to 2 probes types PTC2000 (in various formats or double insulation), NTC10K, input closure contacts.

Specific application use for cooling, freezing and food preservation industry Horeca (hotels, restaurants and catering). They also have industrial, agricultural, livestock and general commercial uses.

Technical characteristics

- Red display 20 x 43mm (0,79x1,69inch)
- Body dimensions without frontal 28 x 70x 62mm (1,10x2,76x2,44inch), frontal 36 x 78 x 7,5mm (1,42x3,07x0,30inch)
- Drill 29 x 71mm (1,14x2,80inch)
- Frontal IP65
- 2 inputs for probes of temperature compatible types PTC2000 or NTC10K we recommend using original certificates Sonder components in order to maintain the accuracy, reliability and safety in reading and the device itself.
- Contact closure input for detecting limit switches, pressure switches, doors, etc.
- Reading scale, depending on probe, from -50°C to 600°C (-58°F to 1.112°F), with decimals between -20° to 80°C (-4°F to 176°F)
- Operated by 4 keys
- Depending on model, or 1 output relay of 16Amp 230Vac, tension free, or up to 2 relays, one of 16Amp and 1 de 5Amp, but between both, never it can never exceed 16 Amp, limit contacts mounted today.
- Internal fuse protection, tamper-proof, factory repairable only by the Technical Service.
- The connection of probes allows the use of up to 2 probes temperature + 1 digital input contact closure or 1 temperature probe + 2 digital inputs contact closure
- For the warranty to 3 years to take effect it is essential to use only approved probes for our teams and provided by Sonder, ensure a correct reading, without deviations or failures in electronics.

EC 60-311 ECO



Built thermostat, 1 probe and 1 relay, powered at 230Vac. Scale from -40°C to +99.9°C. Relay 12A. Probe type PTC2000 ECO of 1,5m (code 4.683) included. For IP65 surface mounting, it is optional order code 7.637

Ref. 26.179

Dimensions: 70 x 28 x 67,5mm
Power Supply 230V~ +10%-15% 50/60Hz
1 switched relay 12(5)A 250V~
1 PTC probe 1.5m calibration option.
Code 26.177: Range -40 to +140°C
Code 26.179 Range -40 to +99°C
Other specifications as per ECS 57
PASSWORD for data protection

EC 60-311



Built thermostat, 1 probe and 1 relay, powered at 230Vac. Scale from -40°C to +140°C. Relay 12A. Probe type PTC2000 of 1,5m included. For IP65 surface mounting, it is optional order code 7.637

Ref. 26.177

Dimensions: 70 x 28 x 67,5mm
Power Supply 230V~ +10%-15% 50/60Hz
1 switched relay 12(5)A 250V~
1 PTC probe 1.5m calibration option.
Code 26.177: Range -40 to +140°C
Code 26.179 Range -40 to +99°C
Other specifications as per ECS 57
PASSWORD for data protection

EC 60-312 AL



Built thermostat, 1 probe and 2 relay, maneuver and alarm, power Supply 230V~. 2 Relays of 12A. Probe included type PTC2000 of 1,5m. Box for surface mounting with IP65, order optional code 7.637

Ref. 26.188

For cooling and heating units with forced defrosting by cycle inversion and electric element or maximum and minimum alarm function

Dimensions: unit 70 x 28 x 67.5mm
Power supply: 230V~ +10%-15% 50/60 Hz
2 relays 12(5)A 250V~
1-2 terminals (alarm): non-switched relay
3-4-5 terminals (application): switched relay
1 PTC probe with calibration option 1.5m (-40 +140°C)
PASSWORD for data protection

EC 60-312ZN



Built thermostat, 1 probe and 2 relays with neutral zone at 230V~. It can do 2 heat steps, 2 cool steps or one of cool and one of heat. Relay 12A.- Probe PTC2000 of 1,5m included. IP65 surface box, optional, (code 7.637)

Ref. 26.189

Controller with neutral zone for cooling and heating units (with double cooling stage, one cooling stage and one heating stage or double heating stage)

Dimensions: unit 70 x 28 x 67.5mm
Power supply: 230V~ +10%-15% 50/60 Hz
2 relays 12(5)A 250V~
1-2 terminals (applic. 2): non-switched relay
3-4-5 terminals (applic. 1): switched relay

1 PTC2000 probe with calibration option 1.5m (-40 +140°C)
PASSWORD for data protection

EC 60-4a20mA



Universal control at 230V~. Built mounting, 1 probe and 1 relay of 12A. Probe not Included. You can use any that generate 4-20mA. You must select between code 5.081, 5.021, 5.684, 5.685, 5.686, 5.661 and 5.662. IP65 box surface mounting, optional.

Ref. 26.186

Universal control with 4 to 20 mA input and single SPDT output. Depending on the 4 to 20 mA probe, the type of regulation is changed:

pressure switch (PC), humidity regulator (HRC), flow regulator, etc

Dimensions: unit 70 x 28 x 67,5 mm

Power supply: 230V~ +10%-15% 50/60Hz

1 switched relay 12(5)A 250V~

Scale: from 0 to 100 points (resolution of 1%) and calibration option from 0 to 999 points (resolution of 0.1%)

Probe not included 4to20mA (see page 92)

PASSWORD for data protection

Caja estanca IP65+Adaptador para serie EC



IP65 surface mounting box + special frame to fit and fix any serie EC product

Ref. 7.637

KA-S1



Waterproof industrial thermostat, up to 2 probes and 2 relays. Independent thermostats. We supply with 1 included probe type PTC2000. Relays 2ut of 12A. IP65. For more probes order code 4.343

Ref. 24.049

Electronic Control with thermostat function

Format: 4 module Rail

Dimensions: 200 x 123 x 112 mm

Power Supply: 230V~ +10%-15% 50/60Hz

2 Relays of 12(5)A 250V~ . Switched SPDT

2 PTC2000 probes L = 1.5m calibration option

Regulation scale: -40 to +140°C, with decimal PASSWORD for data protection

EAS 62



Double thermometer with tenths and maximum and minimum temperature memory. Powered at 230V~. Surface mounting. Plug and run, we supply only 1 probe PTC2000 of 1,5m. Additional probe buy code 4.343

Ref. 26.191

Double temperature input to electronic thermometer, calibrated by front pushbuttons and maximum/minimum temperature memory

EAS 62 and EA 61 power supply: 230 V~ +10%-15% 50/60 Hz

EA 101 power supply: 12...24V~ 50/60Hz

Input: 1 hermetic PTC probe 1.5 m. Range -40 to +140°C

Optional installation of a second probe (not included)

Scale: -40 to 140°C

Resolution: 0.1°C

IP surface: IP20

IP panel-option: front IP65 / Rear IP40

EA 61



Built double thermometer with tenths and maximum and minimum temperature memory. Powered at 230V~. Plug and run, we supply only 1 probe PTC2000 of 1,5m. Additional probe buy code 4.343. IP65 Box surface mounting order code 7.637

Ref. 26.192

Double temperature input to electronic thermometer, calibrated by front pushbuttons and maximum/minimum temperature memory

EAS 62 and EA 61 power supply: 230 V~ +10%-15% 50/60 Hz

EA 101 power supply: 12...24V~ 50/60Hz

Input: 1 hermetic PTC probe 1.5 m. Range -40 to +140°C

Optional installation of a second probe (not included)

Scale: -40 to 140°C

Resolution: 0.1°C

IP surface: IP20

IP panel-option: front IP65 / Rear IP40

FL 16



Flow control. To be used on fluid in pipes of Ø1" to Ø6"

Ref. 12.004

Measures, regulates and controls the flow of fluids for Ø 1" to 8" pipes. Includes 4 AISI 301 stainless steel pallets.

Horizontal installation via G1" thread connector. IP45

Earthed electrical connection by 6.3 mm female faston terminal (includes male)

Maximum working pressure: 10 bar

Working temperature: 20 to +110°C

Maximum ambient temperature: 50 °C Net weight: 0.67 kg

Switched contacts 16A(C-NC) 6A(C-NO)

Increase in flow opens C-NC contact and closes C-NO contact

FA 16



Air or steam flow control. To be used in pipes of Ø1" to Ø6"

Ref. 12.030

Flusostat, air flow control from 1" to 6"

FA 18



Flow switch for air, Interruptor de flujo de aire y vapor para diámetros de 1" a 8". SPDT, 24/250 VAC, 15(8)A, caudal conexión: min. 1.0m/seg, max. 8.0m/seg; desconexión: in. 2.5m/seg, max. 9.2m/seg. IP 65, caja ABS V0

Ref. 12.062

Applications:

Control and supervision of air flow and non-aggressive gases in ducts, chambers, etc. of heating, cooling and air

conditioning equipment.

Technical data:

Type of action:	On / Off, single-stage, micro switch
Output:	SPDT, 24/250 VAC, 15 (8) A
Connection flow:	Min. 1.0m / sec, Max. 8.0m / sec
Disconnection rate:	Min. 2.5m / sec, Max. 9.2m / sec
Sensor element:	Shovel
Shovel size:	53.2x6.9 inches (80x175mm)
Shovel-mounted shovel size:	7.9 inches (200mm)
Material Shovel:	Stainless Steel
Base Material Fixing:	Galvanized Steel
Case material:	white ABS, self-extinguishing or PC, IP65
Working temperature in the box:	-40 ° C ... 85 ° C (-40 ° F ... 185 ° F)
Working temperature on the blade:	-10 ° C ... 85 ° C (14 ° F ... 185 ° F)
Ambient operating humidity:	10 ... 90% RH, non-condensing
Cable entry:	M18 cable gland
Gross weight:	485g

Presión

PD 20



Air differential pressure sensor, DUNGS type, scale from 0.2 to 2mbar (differential 0.1mbar). Included pipe of 2m

Ref. 12.031

24V - 250Vac 1.5(0.4)A, ambient temperature from -20 to 85°C, 6mm, IP54 connection input

PD20 : 0.2 - 2mbar (20 - 200pa) / Differential 0.1mbar (10pa)

PD50 : 0.5 - 2mbar (50 - 200pa) / Differential 0.1mbar (10pa)

PD 50



Air differential pressure sensor, DUNGS type, scale from 0,52 to 5mbar (differential 0,2mbar). Included pipe of 2m

Ref. 12.032

24V - 250Vac 1.5(0.4)A, ambient temperature from -20 to 85°C, 6mm, IP54 connection input

PD20 : 0.2 - 2mbar (20 - 200pa) / Differential 0.1mbar (10pa)

PD50 : 0.5 - 2mbar (50 - 200pa) / Differential 0.1mbar (10pa)

Industria

FR 94



Surface mounting, scale from -15° to +15°, 1°C differential, spiral bulb INSIDE the plastic box

Ref. 27.050

Application in commercial cooling installations and equipment. Display cases, bottle cupboards, ice cupboards, water coolers, etc.

Dimensions: 65 x 90 x 56 mm

Interior temperature probe
Operation at saturation pressure, fast response and high sensitivity
Mechanical: up to 16(4)A 230 V~
Switched silver contacts
Control with two stops included
IP20



FA 102

Surface mounting. Scale from -35°C to +35°C, 3°C differential, bulbe of diameter 6 x 115mm, bulb is FIXED to the box with a flange

Ref. 27.082

Dimensiones: 65 x 90 x 50 mm

Aplicaciones en equipos e instalaciones de frío comercial, vitrinas, botelleros enfriadores de agua, etc.

Funcionamiento por dilatación de líquido, para escalas amplias.

Baja influencia de la temperatura en la caja respecto al bulbo sensor

Contactos de plata conmutados

Mecánicos: 16 (4)A 230V~

Mando con dos topes

IP50

Escala: -35 a +35°C; Diferencial: 3°C ; Bulbo: Ø6 x 115mm;



FR 95

Scale: -25 to +15°C, Differential: 1°C, Capillary: 1,8 m, Bulbe: Ø7,5 x 25mm.
Perfect to be used as Frost Protection in clima machines

Ref. 27.062

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity

LR & L series: operation by liquid expansion for large scales. Low influence of the temperature on the box with regard to the sensor bulb

Switched silver contacts

Mechanical: 16 (4)A 230V~Control with two stopsIP50

Scale: -25 to +15°C, Differential: 1°C, Capillary: 1,8 m, Bulbe: Ø7.5 x 25mm



LR 96

Scale: 0 to +40°C, Differential: 1°C, Capillary: 1,5 m, Bulbe: Ø6 x 155mm

Ref. 27.060

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity

LR & L series: operation by liquid expansion for large scales. Low influence of the temperature on the box with regard to the sensor bulb

Switched silver contacts

Mechanical: 16 (4)A 230V~

Control with two stops

IP50

Scale: 0 to +40°C, Differential: 1°C, Capillary: 1,5 m, Bulbe: Ø6 x 155mm



LR 102

Scale: -35 to +35°C, Differential: 1°C, Capillary: 1,5 m, Bulbe: Ø6 x 115mm

Ref. 27.055

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity

LR & L series: operation by liquid expansion for large scales. Low influence of the temperature on the box with regard to the sensor bulb

Switched silver contacts

Mechanical: 16 (4)A 230V~

Control with two stops

IP50

Scale: -35 to +35°C, Differential: 1°C, Capillary: 1,5 m, Bulbe: Ø6 x 115mm



L 102

Scale: -35 to +35°C. Differential: 3°C. Capillary: 1,5 m. Bulbe: Ø6 x 115mm

Ref. 27.031

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity

LR & L series: operation by liquid expansion for large scales. Low influence of the temperature on the box with regard to the sensor bulb

Switched silver contacts

Mechanical: 16 (4)A 230V~

Control with two stops

IP50

Scale: -35 to +35°C, Differential: 3°C, Capillary: 1,5 m, Bulbe: Ø6 x 115mm



ATA 01S

Scale: -20°C to +40°C, Differential: 1,5°C, Specifications: Spiral stainless steel bulb

Ref. 23.059

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

Stainless steel bulb and capillary

Breaking power: 16 (4)A 230V~

Control with two stops

IP40

Scale: -20°C to +40°C, Differential: 1,5°C, Specifications: Spiral stainless steel bulb



ATA 02S

Scale: 2°C to +50°C. Differential: 1,5°C. Specifications: Spiral stainless steel bulb

Ref. 23.060

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

Stainless steel bulb and capillary

Breaking power: 16 (4)A 230V~

Control with two stops

IP40

Scale: 2°C to +50°C, Differential: 1,5°C, Specifications: Spiral stainless steel bulb



ATCS 010

Scale: 30°C to 90°C. Differential: 3°C. Bulbe: Ø6 x 115 mm. And Capillary 2.000mm

Ref. 27.077

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

Stainless steel bulb and capillary

Breaker power: 16 (4)A 230V~

Control with two stops

Length of capillary: 2 metres

IP50

Scale: 30 to 90°C, Differential: 3°C, Bulbe: Ø6 x 100 mm



ATCS 011

Scale: -10 to 90°C. Differential: 3°C. Bulbe: Ø6 x 101 mm and capillary 2m

Ref. 27.081

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

Stainless steel bulb and capillary

Breaker power: 16 (4)A 230V~

Control with two stops

Length of capillary: 2 metres

IP50

Scale: -10 to 90°C, Differential: 4°C, Bulbe: Ø6 x 100 mm



ATCS 020

Scale: 30 to 120°C. Differential: 4°C. Bulbe: Ø6 x 100 mm and capillary 2m

Ref. 27.078

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

Stainless steel bulb and capillary

Breaker power: 16 (4)A 230V~

Control with two stops

Length of capillary: 2 metres

IP50

Scale: 30 to 120°C, Differential: 4°C, Bulbe: Ø6 x 100 mm



ATCS 022

Scale: 50 to 200°C. Differential: 6°C. Bulbe: Ø6 x 83mm and capillary 2m

Ref. 27.080

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

Stainless steel bulb and capillary

Breaker power: 16 (4)A 230V~

Control with two stops

Length of capillary: 2 metres

IP50

Scale: 50 to 200°C, Differential: 5°C, Bulbe: Ø6 x 83mm



ATCS 030

Scale: 50 to 320°C. Differential: 7°C. Bulbe: Ø6 x 53mm and capillary 2m

Ref. 27.079

Dimensions: 65 x 90 x 50 mm

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

Stainless steel bulb and capillary

Breaker power: 16 (4)A 230V~

Control with two stops

Length of capillary: 2 metres

IP50

Scale: 50 to 320°C, Differential: 6°C, Bulbe: Ø6 x 53mm

TB-A



Mechanical room thermostat for Technical Areas, adjustment scale: 4°C to 40°C, differential: 1,5°C, side spiral bulb

Ref. 23.032

Temperature control in cooling cupboards, dryers, painting booths, farms, greenhouses, industrial climate control, workshops. Antifreeze protection units

Spiral exterior bulb

Operation by expansion of liquid

ABS box 102x72x45 mm. IP40

Faston terminal: 6.3 X 0.8 mm DIN 46244

Maximum thermostat temperature: 80°C

Maximum bulb temperature: 44°C

Switched contacts: 16(5)A 250V~ / 10(3)A 380V~

Scale: 4°C to 40°C, Differential: 1,5°C, Specifications: Spiral bulb



TB-C

Contact mechanical thermostat, setting scale: 30°C to 90°C, differential: 6°C, to fix with a bracket on pipes from Ø¾" to 3"

Ref. 23.029

Water temperature control in boilers, tanks and air-conditioning and heating installations Includes bracket

Operation by expansion of liquid

Faston terminal: 6.3 X 0.8 mm DIN 46244

Maximum thermostat temperature: 100°C

Maximum bulb temperature: 99°C

Switched contacts: 16(5)A 250V~ / 10(3)A 380V~

Scale: 30°C to 90°C, Differential: 6°C, Specifications: Ø¾" to 3" bracket



TB-S90

Mechanical immersion thermostat. setting scale: 0°C to 90°C, differential: 3°C, heating / cooling, duple sheath, one in the other, 200 mm thread 1/2 "

Ref. 23.079

Water temperature control in boilers, tanks, air-conditioning & installations Maximum thermostat temperature: 100°C

Maximum bulb temperature: 99°C Operation by expansion of liquid

TB-S Sheath: Ø10 x 200 mm, ½" GAS thread

Switched contacts: 16(5)A 250V~ / 10(3)A 380V~

Specifications: Heating / Cooling



TB-I

Mechanical immersion Thermostat, setting scale: 30°C to 90°C, differential: 1,5°C, heating / cooling sheath 90mm, thread 1/2" gaz

Ref. 23.030

Water temperature control in boilers, tanks, air-conditioning & installations

Maximum thermostat temperature: 100°C

Maximum bulb temperature: 99°C

Operation by expansion of liquid

TB-S Sheath: Ø10 x 200 mm, ½" GAS thread

TB-I Sheath: Ø14 x 90 mm, ½" GAS thread

TB-RM Sheath: Ø8 x 90 mm, ½" GAS thread

Switched contacts: 16(5)A 250V~ / 10(3)A 380V~

Scale: 30°C to 90°C, Differential: 1,5°C, Specifications: Heating / Cooling

KIT TB 04



Universal serie white line, setting scale 0°C to 40°C, differential 2°C, capillary 850 mm, bulb Ø6x132 mm stainless steel

Ref. 23.061

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic
Maximum temperature. Box: 150°C
Faston terminals 6.3 x 0.8 DIN
Switched contacts 16(4)A 250 V~
Scale: 0 to 40°C, Differential: 2°C, Capillary: 850 mm, Bulbe: Ø6X132 mm inox

KIT TB 04-2



Universal serie white line, setting scale 0°C to 40°C, differential 2°C, capillary 2.000 mm, bulb Ø6X127 mm stainless steel

Ref. 23.062

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 0 to 40°C, Differential: 2°C, Capillary: 2.000 mm, Bulbe: Ø6X127 mm inox

KIT TB 09



Universal serie white line, setting scale: 30°C to 90°C, differential 3°C, capillary 1.500 mm, bulb Ø6X125 mm stainless steel

Ref. 23.063

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 90°C, Differential: 3°C, Capillary: 1.500 mm, Bulbe: Ø6X125 mm inox

KIT TB 09-2



Universal serie white line, setting scale 30°C to 90°C, differential 3°C, capillary 2.000 mm, bulb Ø6X115 mm stainless steel

Ref. 23.064

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 90°C, Differential: 3°C, Capillary: 2.000 mm, Bulbe: Ø6X115 mm inox

KIT TB 09-2-1



Universal serie white line, setting scale -10°C to 90°C, differential 3°C, capillary 2.000 mm, bulb Ø6X101 mm stainless steel

Ref. 23.065

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: -10 to 90°C, Differential: 3°C, Capillary: 2.000 mm, Bulbe: Ø6X101 mm inox

KIT TB 12



Universal serie white line, setting scale 30°C to 120°C, differential 4°C, capillary 850 mm, bulb Ø6X100 mm stainless steel

Ref. 23.066

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 120°C, Differential: 4°C, Capillary: 850 mm, Bulbe: Ø6X100 mm inox

KIT TB 12-2



Universal serie white line, setting scale 30°C to 120°C, differential 4°C, capillary 2.000 mm, bulb Ø6X100 mm stainless steel

Ref. 23.067

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 120°C, Differential: 4°C, Capillary: 2.000 mm, Bulbe: Ø6X100 mm inox

KIT TB 20



Universal serie white line, setting scale 50°C to 200°C, differential 6°C, capillary 1.000 mm, bulb Ø6X83 mm stainless steel

Ref. 23.068

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 200°C, Differential: 5°C, Capillary: 1.000 mm, Bulbe: Ø6X83 mm inox

KIT TB 20-2



Universal serie white line, setting scale: 50°C to 200°C, differential 6°C, capillary 2.000 mm, bulb Ø6X83 mm stainless steel

Ref. 23.069

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 200°C, Differential: 5°C, Capillary: 2.000 mm, Bulbe: Ø6X83 mm inox

KIT TB 32



Universal serie white line, setting scale 50°C to 320°C, differential 7°C, capillary 850 mm, bulb Ø3x162 mm stainless steel

Ref. 23.070

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL.

TB KIT version available (packaged individually with button and trim)

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 320°C, Differential: 6°C, Capillary: 850 mm, Bulbe: Ø6X162 mm inox

KIT TB 32-2



Universal serie white line, setting scale 50°C to 320°C, differential 7°C, capillary 2.000 mm, bulb Ø3x153 mm stainless steel

Ref. 23.071

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc. Normative: CE and UL. TB KIT version available (packaged individually with button and trim) Box 46 x 34 x 26 mm. Plastic Maximum temperature. Box: 150°C Faston terminals 6.3 x 0.8 DIN Switched contacts 16(4)A 250 V~ Scale: 50 to 320°C, Differential: 6°C, Capillary: 2.000 mm, Bulbe: Ø6X162 mm inox

KIT TB 32-2-1



Universal serie white line, setting scale 50°C to 320°C, differential 7°C, capillary 2.000 mm, bulb Ø6x53 mm stainless steel

Ref. 23.072

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc..

TB KIT version available (packaged individually with button and trim)

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 320°C, Differential: 6°C, Capillary: 2.000 mm, Bulbe: Ø6X53 mm inox

TB 04



Universal serie white line, setting scale 0°C to 40°C, differential 2°C, capillary 850 mm, bulb Ø6X132 mm inox

Ref. 23.023

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 0 to 40°C, Differential: 2°C, Capillary: 850 mm, Bulbe: Ø6X132 mm inox

TB 04-2



Universal serie white line, setting scale 0 to 40°C, differential 2°C, capillary 2.000 mm, bulb Ø6X127 mm stainless steel

Ref. 23.052

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic
Maximum temperature. Box: 150°C
Faston terminals 6.3 x 0.8 DIN
Switched contacts 16(4)A 250 V~
Scale: 0 to 40°C, Differential: 2°C, Capillary: 2.000 mm, Bulbe: Ø6X127 mm inox



TB 09

Universal serie white line, setting scale 30 to 90°C, differential 3°C, capillary 1.500 mm, bulb Ø6X125 mm stainless steel

Ref. 23.024

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 90°C, Differential: 3°C, Capillary: 1.500 mm, Bulbe: Ø6X125 mm inox



TB 09-2

Universal serie white line, setting scale 30 to 90°C, differential 3°C, capillary 2.000 mm, bulb Ø6X115 mm stainless steel

Ref. 23.048

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 90°C, Differential: 3°C, Capillary: 2.000 mm, Bulbe: Ø6X115 mm inox



TB 09-2-1

Universal serie white line, setting scale -10°C to 90°C, differential 3°C, capillary 2.000 mm, bulb Ø6X101 mm stainless steel

Ref. 23.053

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: -10 to 90°C, Differential: 3°C, Capillary: 2.000 mm, Bulbe: Ø6X101 mm inox



TB 12

Universal serie white line, setting scale 30°C to 120°C, differential 4°C, capillary 850 mm, bulb Ø6X100 mm stainless steel

Ref. 23.025

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 120°C, Differential: 4°C, Capillary: 850 mm, Bulbe: Ø6X100 mm inox



TB 12-2

Universal serie white line, setting scale 30°C to 120°C, differential 4°C, capillary 2.000 mm, bulb Ø6X100 mm stainless steel

Ref. 23.049

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 30 to 120°C, Differential: 4°C, Capillary: 2.000 mm, Bulbe: Ø6X100 mm inox



TB 20

Universal serie white line, setting scale: 50°C to 200°C, differential 6°C, capillary 1.000 mm, bulb Ø6X83 mm stainless steel

Ref. 23.026

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 200°C, Differential: 5°C, Capillary: 1.000 mm, Bulbe: Ø6X83 mm inox



TB 20-2

Universal serie white line, setting scale 50 to 200°C, differential 6°C, capillary 2.000 mm, bulb Ø6X83 mm stainless steel

Ref. 23.050

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 200°C, Differential: 5°C, Capillary: 2.000 mm, Bulbe: Ø6X83 mm inox



TB 32

Universal serie white line, setting scale 50°C to 320°C, differential 7°C, capillary 850 mm, bulb Ø3X162 mm stainless steel

Ref. 23.027

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 320°C, Differential: 6°C, Capillary: 850 mm, Bulbe: Ø6X162 mm inox



TB 32-2

Universal serie white line, setting scale 50°C to 320°C, differential 7°C, capillary 2.000 mm, bulb Ø3X162 mm stainless steel

Ref. 23.051

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 320°C, Differential: 6°C, Capillary: 2.000 mm, Bulbe: Ø6X162 mm inox



TB 32-2-1

Universal serie white line, setting scale 50°C to 320°C, differential 7°C, capillary 2.000 mm, bulb Ø6X53 mm stainless steel

Ref. 23.054

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE and UL

Box 46 x 34 x 26 mm. Plastic

Maximum temperature. Box: 150°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: 50 to 320°C, Differential: 6°C, Capillary: 2.000 mm, Bulbe: Ø6X53 mm inox

Mando de 0 a 40°C



Knob for TB 04, ultramid (T 110°C)

Ref. 2.076

Material: black ultramid

Scale printed in white

28 positions for field stop No. 2081 (not included)

Mando de 0 a 90°C



Knob for TB 09, ultramid (T 110°C)

Ref. 2.106

Material: black ultramid

Scale printed in white

28 positions for field stop No. 2081 (not included)

Mando de -10 a 90°C



Knob for TB 09-2-1, ultramid (T 110°C)

Ref. 2.928

Material: black ultramid

Scale printed in white

28 positions for field stop No. 2081 (not included)

Mando de 0 a 120°C



Knob for TB 12, ultramid (T 110°C)

Ref. 1.933

Material: black ultramid

Scale printed in white

28 positions For field stop No. 2081 (not included)

Mando de 0 a 150°C



Knob for TB 12, as second option, we recommend code 1.933, ultramid (T 110°C)

Ref. 1.937

Material: black ultramid

Scale printed in white 28 positions for field stop No. 2081 (not included)

Mando de 0 a 200°C



Knob from 0 to 200°C, for TB20, ultramid (T110°C)

Ref. 1.935

Material: ultramid black supports 110°C

Scale printing in white color

28 accommodations for 2 Stops (=Topes de Campo ref. N° 2.081 (not included))

Optional: Bezel disc ref. 22.015

Mando de 0 a 320°C



Knob for TB 32, ultramid (T110°C)

Ref. 1.936

Material: ultramid black supports 110°C

Scale printing in white color

28 accommodations for 2 Stops (=Topes de Campo ref. N° 2.081 (not included))

Optional: Bezel disc ref. 22.015

Disco embellecedor

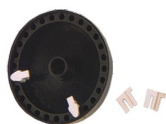


For TB, it serves to fix and has the faithful indicator of the selected position, ultramid (T 110°C)

Ref. 22.015

Bezel disc, base to set thermostat and mark of the reference point of the dial. Ultramid material, supports 110°C color black

Tope de campo



Limit or fix the movement of the knob respect base disk, reduce or limit the scale. We recommend buying 2ud, this reference is only 1ud

Ref. 2.081

Tope limitador de escala, también permite fijar la temperatura. Recomendable la compra de 2 unidades

TB-M (95°C)



Universal serie white line, setting scale fixed at 95°C, manual reset, capillary 900 mm, bulbe: Ø6X91mm stainless steel.

Ref. 23.028

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE

Box 47 x 33 x 27 mm. Metal

Maximum temperature. Box: 55°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: Fixed at 95°C, Differential: Manual switched, Capillary: 900 mm, Bulbe: Ø6X91mm inox



TB-M * (120°C mínimo 100ud)

Universal serie white line, setting scale fixed at 120°C, manual reset, capillary 900 mm, bulbe: Ø6X91mm stainless steel. *Note: order minimum 100pcs

Ref. 23.047

Applications: air-conditioners, climate control conduits, heaters, boilers, hot cupboards, aperitif heaters, room heaters, fryers, kitchen ovens, laboratory apparatus, etc.

Normative: CE

Box 47 x 33 x 27 mm. Metal

Maximum temperature. Box: 55°C

Faston terminals 6.3 x 0.8 DIN

Switched contacts 16(4)A 250 V~

Scale: Fixed at 120°C, Differential: Manual switched, Capillary: 900 mm, Bulbe: Ø6X91mm inox

FR 97



To built and sense at distance, setting scale: -25 to +15°C, differential: 1°C, capillary: 1,8 m, Bulbe: Ø7.5 x 25mm

Ref. 27.061

Mechanical thermostats with switched silver contacts

Breaker power: 16(4)A 230V~

Bag of accessories and control with two stops

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity. Copper bulb

Series LR: operation by liquid dilation, for large scales. Low temperature influence on box with regard to sensor bulb.

Stainless steel bulb.

Scale: -25 to +15°C, Differential: 1°C, Capillary: 1,8 m, Bulbe: Ø7.5 x 25mm

LR 98



Built mechanical version. Setting scale: 0 to +40°C. Differential: 1°C. Capillary: 1,5 m. Bulbe: Ø6 x 155mm

Ref. 27.059

Mechanical thermostats with switched silver contacts

Breaker power: 16(4)A 230V~

Bag of accessories and control with two stops

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity. Copper bulb

Series LR: operation by liquid dilation, for large scales. Low temperature influence on box with regard to sensor bulb.

Stainless steel bulb.

Scale: 0 to +40°C, Differential: 1°C, Capillary: 1,5 m, Bulbe: Ø6 x 155mm



LR 101

To built and sense at distance, setting scale: -35 to +35°C, differential: 1°C, capillary: 1,5 m, bulbe: Ø6 x 115mm

Ref. 27.054

Mechanical thermostats with switched silver contacts

Breaker power: 16(4)A 230V~

Bag of accessories and control with two stops

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity. Copper bulb

Series LR: operation by liquid dilation, for large scales. Low temperature influence on box with regard to sensor bulb.

Stainless steel bulb.

Scale: -35 to +35°C, Differential: 1°C, Capillary: 1,5 m, Bulbe: Ø6 x 115mm



L 101

To built and sense at distance, setting scale: -35 to +35°C, differential: 3°C, capillary: 1,5 m, bulbe: Ø6 x 115mm. Included screws and limiter

Ref. 27.030

Mechanical thermostats with switched silver contacts

Breaker power: 16(4)A 230V~

Bag of accessories and control with two stops

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR series: operation at saturation pressure, fast response and maximum sensitivity. Copper bulb

Series LR: operation by liquid dilation, for large scales. Low temperature influence on box with regard to sensor bulb.

Stainless steel bulb. Scale: -35 to +35°C, Differential: 3°C, Capillary: 1,5 m, Bulbe: Ø6 x 115mm



PFN 111A

Built in and distance sense serie, without bulb, setting scale: -15 to -1°C. Differential: 9°C, Capillary 1,2 m. Ideal freezing chests

Ref. 27.063

Mechanical thermostats with gas charge and copper bulb Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc. FR 202 with control with two stops and breaking power 16(4)A 230V~FR 204 with plastic trim plate Series PFN: aluminium trim plate and breaking power 5(2)A 230V~PFN 111F specially for bottle cupboards Scale: -15 to -1°C, Differential: 9°C, Bulbe: 1,2 m



PFN 111E

Built in and distance sense serie, without bulb, setting scale: -25 to -15°C. Differential: 9°C, Capillary 1,2 m. Ideal freezing chests

Ref. 27.064

Mechanical thermostats with gas charge and copper bulb Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc. FR 202 with control with two stops and breaking power 16(4)A 230V~FR 204 with plastic trim plate Series PFN: aluminium trim plate and breaking power 5(2)A 230V~PFN 111F specially for bottle cupboards Scale: -25 to -15°C, Differential: 9°C, Bulbe: 1,2 m



PFN 111F

Built in and distance sense serie, without bulb, setting scale: +1,5 to +9,5°C.
Differential: 9°. Capillary 1,2 m. Ideal bottle coolers

Ref. 27.065

Mechanical thermostats with gas charge and copper bulb

Applications on commercial cooling installations and equipment, display cases, bottle cupboards, water coolers, etc.

FR 202 with control with two stops and breaking power 16(4)A 230V~

FR 204 with plastic trim plate

Series PFN: aluminium trim plate and breaking power 5(2)A 230V~

PFN 111F specially for bottle cupboards

Scale: +1,5 to +9,5°C, Differential: 9°C, Bulbe: 1,2 m

Presión

PS12CN



Pressure switch low pressure IP40, setting scale -0,5 to 6 bar, adjustable differential 0,6 to 4 bar, max. pressure 9 bar, weight 0,40 Kg, male thread 1/4". Until end of stock

Ref. 25.075

For controlling and regulating all non-explosive gases and fluids

Sensor with stainless steel membrane

G 1/4" male thread (17 mm spanner)

CEI EN 60947-5-1 standard compliant

16A switched contacts

With pressure increase, opens 1-2, closes 1-4

Maximum temperature fluid to be controlled: 120°C

Ambient working temperature: -35 to 60°C

Scale: -0,5 to 6 bar, Differential: 0,6 to 4 bar, Max. pressure: 9 bar, Weight: 0,40 Kg, Thread: 1/4" male

B 12CN



Pressure switch low pressure, IP40, setting scale -0,2 to 8 bar, adjustable differential 0,6 to 3 bar, max. pressure 9 bar, weight 0,37 Kg, female thread 1/4"

Ref. 25.057

For controlling and regulating all non-explosive gases and fluids

Sensor with stainless steel membrane

G 1/4" female thread (17 mm spanner)

CEI EN 60947-5-1 standard compliant

16A switched contacts

With pressure increase, opens 1-2, closes 1-4

Maximum temperature fluid to be controlled: 120°C

Ambient working temperature: -35 to 60°C

Scale: -0,2 to 8 bar, Differential: 0,6 to 3 bar, Max. pressure: 9 bar, Weight: 0,37 Kg, Thread: 1/4" female

B 12DN



Pressure switch, low pressure, setting scale 5 to 16 bar, IP40, differential 1 to 3,5 bar, max. pressure 18 bar, weight 0,38 Kg, female thread 1/4"

Ref. 25.058

For controlling and regulating all non-explosive gases and fluids

Sensor with stainless steel membrane

G 1/4" female thread (17 mm spanner)

CEI EN 60947-5-1 standard compliant

16A switched contacts

With pressure increase, opens 1-2, closes 1-4

Maximum temperature fluid to be controlled: 120°C

Ambient working temperature: -35 to 60°C

Scale: 5 to 16 bar, Differential: 1 to 3,5 bar, Max. pressure: 18 bar, Weight: 0,38 Kg, Thread: 1/4" female

B 12EN



Pressure switch, low pressure, setting scale 8 to 28 bar, IP40, differential 2 to 6 bar, max. pressure 29 bar, weight 0,38 Kg, female thread 1/4"

Ref. 25.059

For controlling and regulating all non-explosive gases and fluids

Sensor with stainless steel membrane

G 1/4" female thread (17 mm spanner)

CEI EN 60947-5-1 standard compliant

16A switched contacts

With pressure increase, opens 1-2, closes 1-4

Maximum temperature fluid to be controlled: 120°C

Ambient working temperature: -35 to 60°C

Scale: 8 to 28 bar, Differential: 2 to 6 bar, Max. pressure: 29 bar, Weight: 0,38 Kg, Thread: 1/4" female

B 12AN



Vacuum pressure switch, IP40, setting scale -0,82 a 0 bar, differential fix at 0,1b, max. pressure 2,5 bar, weight 0,43 Kg, female thread 1/4"

Ref. 25.061

To control the values of the vacuum in the pumps when a low differential is required

Sensor with stainless steel membrane

G 1/4" female thread (17 mm spanner)

CEI EN 60947-5-1 standard compliant

16A switched contacts

With pressure increase, opens 1-2, closes 1-4

Maximum temperature fluid to be controlled: 120°C

Ambient working temperature: -35 to 60°C

Scale: -0,82 a 0 bar, Differential: 0,1 fix, Max. pressure: 2,5 bar, Weight: 0,43 Kg

B 12CNY



Pressure switch, low pressure water proof, IP65, setting scale -0,2 a 8 bar, differential 0,6 a 3 bar, max. pressure 9 bar, weight 0,37 Kg, female thread 1/4"

Ref. 25.064

B12CN functionality with IP65

Sensor with stainless steel membrane

G 1/4" female thread (17 mm spanner)

CEI EN 60947-5-1 standard compliant

16A switched contacts

With pressure increase, opens 1-2, closes 1-4

Maximum temperature fluid to be controlled: 120°C

Ambient working temperature: -35 to 60°C

Scale: -0,2 a 8 bar, Differential: 0,1 a 3 bar, Max. pressure: 9 bar, Weight: 0,37 Kg

B 12GN



Pressure switch, high pressure, setting scale 25 to 150bar, IP40, differential 12 to 40 bar, max. pressure 180 bar, weight: 0,47 Kg, male thread 1/4"

Ref. 25.060

For controlling and regulating all non-explosive gases and fluids

Sensor with stainless steel membrane

G 1/4" female thread (17 mm spanner)

CEI EN 60947-5-1 standard compliant

16A switched contacts

With pressure increase, opens 1-2, closes 1-4

Maximum temperature fluid to be controlled: 120°C

Ambient working temperature: -35 to 60°C

Scale: 25 a 150 bar, Differential: 12 a 40 bar, Max. pressure: 180 bar, Weight: 0,47 Kg

XP110 0,2-1,2 bar



Mini pressure switch, horizontal contacts, setting scale 0,2-1,2 bar, test pressure 3 bar, differential 0,20 bar, male thread 1/4" gas

Ref. 25.037

Body: brass

Box: Technopolymer (PPS)

Stainless steel membrane: AISI 316

Spring: hardened steel

Adjustment: by screw

Approx. weight: 80 g

Breaker power: SPDT 16(4)A 250V~

Electrical connection: faston 6.3 x 0.8

Ambient temperature: -20°C to +125°C

Thermal drift: 0.04 bar every 10°C for temperature of +20°C

Scale: 0,2-1,2 bar, Test Pressure: 3 bar, Differential: 0,20 bar, Thread: 1/4" GAS

XP110 1,0-2,5 bar



Mini pressure switch, horizontal contacts, setting scale 1,0-2,5 bar, test pressure 4 bar, differential 0,20 bar, male thread 1/4" gas

Ref. 25.038

Body: brass

Box: Technopolymer (PPS)

Stainless steel membrane: AISI 316

Spring: hardened steel

Adjustment: by screw

Approx. weight: 80 g

Breaker power: SPDT 16(4)A 250V~

Electrical connection: faston 6.3 x 0.8 Ambient temperature: -20°C to +125°C

Thermal drift: 0.04 bar every 10°C for temperature of +20°C

Scale: 1,0-2,5 bar, Test Pressure: 4 bar, Differential: 0,20 bar, Thread: 1/4" GAS

XP110 1,5-4,0 bar



Mini pressure switch, horizontal contacts, setting scale 1,5-4,0 bar, test pressure 5 bar, differential 0,20 bar, male thread 1/4" gas

Ref. 25.039

Body: brass

Box: Technopolymer (PPS)

Stainless steel membrane: AISI 316

Spring: hardened steel

Adjustment: by screw

Approx. weight: 80 g

Breaker power: SPDT 16(4)A 250V~

Electrical connection: faston 6.3 x 0.8

Ambient temperature: -20°C to +125°C

Thermal drift: 0.04 bar every 10°C for temperature of +20°C

Scale: 1,5-4,0 bar, Test Pressure: 5 bar, Differential: 0,20 bar, Thread: 1/4" GAS

XP110 2,0-6,0 bar



Mini pressure switch, horizontal contacts, setting scale 2,0-6,0 bar, test pressure 8 bar, differential 0,20 bar, male thread 1/4" gas

Ref. 25.045

Body: brass

Box: Technopolymer (PPS)

Stainless steel membrane: AISI 316 Spring: hardened steel

Adjustment: by screw Approx. weight: 80 g

Breaker power: SPDT 16(4)A 250V~

Electrical connection: faston 6.3 x 0.8

Ambient temperature: -20°C to +125°C

Thermal drift: 0.04 bar every 10°C for temperature of +20°C

Scale: 2,0-6,0 bar, Test Pressure: 8 bar, Differential: 0,20 bar, Thread: 1/4" GAS

XP110 4,0-9,0 bar



Mini pressure switch, horizontal contacts, setting scale 4,0-9,0 bar, test pressure 10 bar, differential 0,35 bar, male thread 1/4" gas

Ref. 25.040

Body: brass

Box: Technopolymer (PPS)

Stainless steel membrane: AISI 316

Spring: hardened steel

Adjustment: by screw

Approx. weight: 80 g

Breaker power: SPDT 16(4)A 250V~

Electrical connection: faston 6.3 x 0.8

Ambient temperature: -20°C to +125°C

Thermal drift: 0.04 bar every 10°C for temperature of +20°C

Scale: 4,0-9,0 bar, Test Pressure: 10 bar, Differential: 0,35 bar, Thread: 1/4" GAS

XP110 1,0-2,5 bar rosca 1/8"



Mini pressure switch, horizontal contacts, setting scale 1,0-2,5 bar, test pressure 4 bar, differential 0,20 bar, male thread 1/8" gas. Until end of stock

Ref. 25.066

Body: brass

Box: Technopolymer (PPS)

Stainless steel membrane: AISI 316

Spring: hardened steel

Adjustment: by screw

Approx. weight: 80 g

Breaker power: SPDT 16(4)A 250V~

Electrical connection: faston 6.3 x 0.8

Ambient temperature: -20°C to +125°C

Thermal drift: 0.04 bar every 10°C for temperature of +20°C

Scale: 1,0-2,5 bar 1/8", Test Pressure: 4 bar, Differential: 0,20 bar, Thread: 1/8" GAS

XP600 0,2-1,2 bar



Mini pressure switch, vertical contacts, setting scale 0,2-1,2 bar, test pressure 4 bar, differential 0,30 bar, male thread 1/4" gas. Recommended accessory plug cap wiring (cod. 5224)

Ref. 25.041

Body: brass

Box: technopolymer PBT

Membrane: Stainless steel AISI 316

Repeatability: ±0.05 bar

Breaker power: SPDT 10(2)A 250V~

Operating temperature: -20°C to +85°C

Thermal drift: +0.04 bar every 10°C for temperature of +20°C

The contacts can be protected with the optional hoods (see accessories)

Scale: 0,2-1,2 bar, Test Pressure: 4 bar, Differential: 0,30 bar, Thread: 1/4" GAS



XP600 1,0-2,5 bar

Mini pressure switch, vertical contacts, setting scale 1,0-2,5 bar, test pressure 5 bar, differential 0,30 bar, male thread 1/4" gas. Recommended accessory plug cap wiring (code 5.224)

Ref. 25.051

Body: brass

Box: technopolymer PBT

Membrane: Stainless steel AISI 316

Repeatability: ± 0.05 bar

Breaker power: SPDT 10(2)A 250V~

Operating temperature: -20°C to +85°C

Thermal drift: +0.04 bar every 10°C for temperature of +20°C

The contacts can be protected with the optional hoods (see accessories)

Scale: 1,0-2,5 bar, Test Pressure: 4 bar, Differential: 0,30 bar, Thread: 1/4" GAS



XP600 1,5-4,0 bar

Mini pressure switch, vertical contacts, setting scale 1,5-4,0 bar, test pressure 6 bar, differential 0,35 bar, male thread 1/4" gas. Recommended accessory plug cap wiring (cod. 5224)

Ref. 25.052

Body: brass

Box: technopolymer PBT

Membrane: Stainless steel AISI 316

Repeatability: ± 0.05 bar

Breaker power: SPDT 10(2)A 250V~

Operating temperature: -20°C to +85°C

Thermal drift: +0.04 bar every 10°C for temperature of +20°C

The contacts can be protected with the optional hoods (see accessories)

Scale: 1,5-4,0 bar, Test Pressure: 5 bar, Differential: 0,30 bar, Thread: 1/4" GAS



XP600 2,0-6,0 bar

Mini pressure switch, vertical contacts, setting scale 2,0-6,0 bar, test pressure 8 bar, differential 0,35 bar, male thread 1/4" gas. Recommended accessory plug cap wiring (cod. 5224)

Ref. 25.054

Body: brass

Box: technopolymer PBT

Membrane: Stainless steel AISI 316

Repeatability: ± 0.05 bar

Breaker power: SPDT 10(2)A 250V~

Operating temperature: -20°C to +85°C

Thermal drift: +0.04 bar every 10°C for temperature of +20°C

The contacts can be protected with the optional hoods (see accessories)

Scale: 2,0-6,0 bar, Test Pressure: 8 bar, Differential: 0,35 bar, Thread: 1/4" GAS



XP600 2,0-6,0 bar rosca 1/8"

Mini pressure switch, vertical contacts, setting scale 2,0-6,0 bar, test pressure 8 bar, differential 0,35 bar, male thread 1/4" gas. Until end of stock. Recommended accessory plug cap wiring (cod. 5224)

Ref. 25.049

Body: brass

Box: technopolymer PBT

Membrane: Stainless steel AISI 316

Repeatability: ± 0.05 bar

Breaker power: SPDT 10(2)A 250V~

Operating temperature: -20°C to +85°C

Thermal drift: +0.04 bar every 10°C for temperature of +20°C

The contacts can be protected with the optional hoods (see accessories)

Scale: 2,0-6,0 bar, Test Pressure: 8 bar, Differential: 0,35 bar, Thread: 1/8" GAS



Capuchón

Covers contacts mini pressure switch with vertical terminals, complement for XP600

Ref. 2.362

Hood

Capuchón cableado enchufable 0,5m



Recommended accessory for XP600. Cover and wire the contacts for the mini pressure switch with vertical terminals, length 0.5m

Ref. 5.224

Cabled Hood

Sondas

SFC200 (para conductos)



PTC2000 probe mounted duct, 1ud, range -40°C a 140°C, with junction box connection

Ref. 2.907

PTC2000 IP67 Box: 90 x 50 x 26 Black plastic Supported range: -40°C to +200°C Reading range: -40°C to +140°C

Soncab 301 Ptc2000 de 1,5m



Silicone wire 1,5m. Range -40°C to +140°C, supports up to 200°C

Ref. 4.339

PTC2000 IP65

Supported range: -40°C to +200°C

Reading range: -40°C to +140°C

Cable silicona para prolongar



Silicone meter cable to extend, without plug. It goes by the meter, ask meters required

Ref. 7.470

Soncab 302 Ptc2000 de 3m



Silicone wire 3m. Range -40°C to +140°C, supports up to 200°C

Ref. 4.343

PTC2000 IP65

Supported range: -40°C to +200°C

Reading range: -40°C to +140°C

Soncab 301 Ptc2000 ECO



Wire of PVC 1,5 m. Range -50 to +120°C

Ref. 4.683

PTC2000 IP65

Supported range: -40°C to +200°C

Reading range: -40°C to +140°C

Soncab 301 Ptc2000 D.A. (Doble Aislamiento)



Double insulation wire and probe capsule 3m. Range -30 to +80°C. Extendable. Complement of code 29.016, 10.269 and 10.270

Ref. 5.770

PTC2000 IP67

Reading range: -30°C to +80°C

Soncab 301 Pt1000 de 1,5m



Silicone wire 1,5m, IP67. Range -50 to +200°C, extendable with code 7.470 and sealed with code 7.344

Ref. 5.743

PT1000 IP67

Reading range: -50°C to +200°C

Soncab 301 Pt1000 Alta Temperatura



For high temperature. Glass fiber wire mesh 3m. Range 0°C to +600°C, extendable with code 7.470 (low temperature) and sealed with code 7.344

Ref. 5.902

PT1000 Hight T IP67

Reading range: 0 to 600°C

Soncab 301 Pt1000 Abrazadera



1.5m silicone cable. Range -50 to +120°C Probe with adjustable clamp, silicone wire 1,5m, IP67. Range -50° C to + 120 °C, extendable. Ideal for fixing to pipes

Ref. 5.922

PT1000 Clamp IP67

Reading range: -50°C to +120°C

Soncab 301 NTC 10K de 1,5m



Range -50°C to +120°C, IP67

Ref. 7.494

Soncab 302 NTC 10K de 3m



Range -30°C to +80°C

Ref. 7.333

Soncab 301 Contacto Pt100



Range -50°C to +200°C. Extendable and it can be fixed using screw. 2 wires. B class. Cap diameter 6 x 50mm made of Aisi 316, wire length 1,5m. IP67.

Ref. 7.337

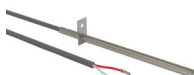
Soncab 301 Inmersión Pt100



Immersion probe. Range -50°C to +200°C. Extendable. 2 wires. B class. Sheath 1/2" gas made of Aisi 303, Hexagonal 24mm

Ref. 7.389

Soncab 301 Conducto Pt100



Duct probe with platen. Range -50°C to +200°C. Extendable and it can be fixed using screw. 2 wires. B class. Cap diameter 6 x 115mm made of Aisi 316, immersion length 100m. Wire length 1,5m. IP67.

Ref. 7.270



Sonext 101 NTC10K

Outside temperature sensor, IP65, ideal complement for Siesta-CRX RD Exterior (code 29.070), range -50 to 90°C, value at 25°C 10.000 ohms

Ref. 7.336



Sonext 101 Pt100

Outside temperature sensor, IP65, range -50 to 90°C, value at 0°C 100 ohms

Ref. 7.271



Sonext 101 Ptc2000

Outside temperature sensor, IP65, range -50 to 90°C, value at 25°C 1.990ohms (before was code 5.664)

Ref. 7.279



Sonamb 201 NTC10K

Room temperature sensor without adjustment, IP30, range -50 to +90°C, value at 25°C 10.000 ohms. Placa TA (wall frame) in an optional not included (code 3.970)

Ref. 7.346



Sonamb 201 PT1000

Room temperature sensor without adjustment, IP30, range -50 to +90°C, value at 0°C 1.000 ohms. Placa TA (wall frame) in an optional not included (code 3.970)

Ref. 5.833

IP20

Dimensions: 76 x 76 x 30 mm. Includes standard plat and Ø60 of 85 x 85 mm

Probe Without Adjustment , Range °C: -50...+90°C, Value 0°C: 100 ohms



Sonamb 201 PTC2000

Room temperature sensor without adjustment, IP30, range -50 to +90°C, value at 25°C 1.990 ohms. Placa TA (wall frame) in an optional not included (code 3.970)

Ref. 5.266

Presión



Sonda Presión 0 a 16 bar

Pressure transducer, scale 0 to 16bar, output 4 to 20mA, male thread 1/4" gas, 1m wire included

Ref. 4.820

Protection: IP65

Pressure inlet thread: 1/4" male thread

Working temperature: -20 to +80°C

Weight: approximately 75 g

Sondas

Soncab 301 SH01



Humidity probe, type transducer, output 4 to 20mA, silicone wire 3m, IP40

Ref. 5.081

Protection: IP40

Power supply: 9 a 24 Vdc

Maximum consumption: 20mA

Output max. charge: 50ohm

Response time: 30 seconds

Precision : ±5%

Range: 20% to 98 % R.H.

Response: at 20% R.H. gives 5.6mA

at 98% R.H. gives 19.7 mA

Soncab 301 ST01



Temperature probe, type transducer, output 4 to 20mA, silicone wire 3m, IP40

Ref. 5.021

Protection: IP40

Power supply: 9 a 24 Vdc

Maximum consumption: 20mA

Output charge: 50ohm

Response time: 30 seconds

Precisio: ±5%

Range: 0°C to +100°C

Response: at 0°C gives 4mA

at 100°C gives 20 mA

Soncab 301 SHT01



Double probe, transducer with output signal 4 to 20mA, measure temperature and humidity, cylindrical, scale 20% to 98% Relative Humidity, IP20

Ref. 7.280

-

Sonamb 201 4a20mA T



IP30 probe, scale 0°C to 70°C, temperature transducer with output 4 to 20mA.
Placa TA (wall frame) optional not included (code 3.970)

Ref. 5.684

The Hall Probe includes an Ø60 85 x 85 mm framing box

Protection: IP20
Power supply: 9 a 24 Vdc
Maximum consumption: 20mA
Output charge: 50W
Response time: 30 seconds
Precision: $\pm 5\%$
Range: 0°C to $+70^{\circ}\text{C}$
Response: at 0°C gives 4mA
at 100°C gives 20 mA



Sonamb 201 4a20mA Dual (T+HR)

Double transducer probe for temperature and humidity, scale 0°C to $+70^{\circ}\text{C}$ and 20% to 98% R.H., output 4 to 20mA. IP30. Placa TA (wall frame) optional not included (code 3.970)

Ref. 5.686

The Hall Probe includes an $\varnothing 60$ 85 x 85 mm framing box

Protection: IP20
Power supply: 9 a 24 Vdc
Maximum consumption: 20mA
Output charge: 50W
Response time: 30 seconds

TEMPERATURE

Precision : $\pm 5\%$
Range: 0°C to $+70^{\circ}\text{C}$
Response: at 0°C gives 4mA
at 100°C gives 20 mA

HUMIDITY

Precision: $\pm 3\%$
Range: 20% to 98 % R.H.
Response: at 20% R.H. gives 5.6mA
at 98% R.H. gives 19.7 mA

Tarro 500 grs. pasta térmica conductiva de calor



Heat conductive thermal paste, without applicator, to improve heat transfer surface to be sensed as a sheath, etc. to electronic or mechanical sensor

Ref. 5.614

Silicone for filling and improving thermal conductivity in sheaths or on contact applications
Applicable in thermostats with sheaths or fastening flanges and in electronic probes
Evaporation ($200^{\circ}\text{C}/24\text{h}$): 0.7%
Temperature range: -57°C a 204°C

Jeringa 10 grs. Pasta térmica conductiva con tapón aplicador



Syringe with cover for easy application. Heat conductive thermal paste, to improve heat transfer surface to be sensed as a sheath, etc. to electronic or mechanical sensor

Ref. 5.652

Silicone for filling and improving thermal conductivity in sheaths or on contact applications

Applicable in thermostats with sheaths or fastening flanges and in electronic probes

Evaporation (200°C/24h): 0.7%

Temperature range: -57°C a 204°C

Industria



Box 4 Módulos

IP65 Box for 4 module Mounting Surface devices, transform from rail mounting to surface mounting.

Ref. 4.914

IP65 / IK09

Double insulation (class II)

IEC 60439-3 / IEC 60695-2-1

Grey self-extinguishing insulation material and semitransparent door



Relé Auxiliar Q4

Changes 4 SPST to SPDT Relays

Ref. 5.995

Device that transforms 4 SPST relays (non-switched contacts) into 4 SPDT relays (switched contacts)

It separates tensions for the same manoeuvre. For example 230V, 115 and 24V

To transform into a digital signal (0-1)



Trafo 3VA

External electric transformer Input: 230V~ / output: 12Vac

Ref. 4.549

Encapsulated transformer with bases

Surface fastening legs

Input: 230V~ / Output: 12V

3VA terminals

Maximum ambient temperature: 60°C

Sondas

Vaina 20



Sheath of Nickel plated brass L= 20 mm. Thread M12

Ref. 24.046

Nickel plated brass length 20 mm

M12

Sheath Øext. = 10 mm

Øint. = 7 mm

Vaina 50



Sheath of AISI 316 Stainless steel length 50 mm 1/2" thread

Ref. 24.027

Stainless steel length 50 mm

1/2" thread

Sheath Øext. = 10 mm

Øint. = 7 mm

Vaina 100



Sheath of AISI 316 Stainless steel length 100 mm 1/2" thread

Ref. 24.025

Stainless steel length 100 mm

1/2" thread

Sheath Øext. = 10 mm

Øint. = 7 mm

Vaina 200



Sheath of AISI 316 Stainless steel length 200 mm 1/2" thread

Ref. 24.026

Stainless steel length 200 mm

1/2" thread

Sheath Øext. = 10 mm

Øint. = 7 mm

General Conditions of Sale and Guarantee for Spain and Portugal

Prices

The prices reflected in the Sonder Regulación, S.A. (hereinafter Sonder) are without I.V.A. The current official value at the time of sale will be applied to the invoice.

The prices that appear in our rate are understood, standard packed material and placed in our Rubí stores (ex-works)

Waste canons according to royal decree 208/2005.

Our prices and conditions may be subject to change without further notice from us.

Payments

All payments are considered due in Rubí. Our national sales are strictly guaranteed by "Crédito y Caucción". The first sale will be paid in advance.

The form of payment will never exceed 60 days, from the invoice date. If there is a fixed maturity date, the conditions will be 45 days not to exceed 60 days (according to the Default Law 15/2010 of July 5). Any postponement of invoices when due will cause the closing of the account on credit, until the satisfaction of the debt and a charge for delay expense.

It will be done in the manner established in the invoice. In case of delay in payment, expenses and interest will be charged (official discount rate + 2 points) without prejudice to claims that may be due for damages. All our merchandise is consigned in deposit until its complete payment. Orders of net value between € 120.00 and € 250.00 will only be used with payment at 30 days.

Orders

Minimum order 120,00 € net material. For lower values they must be taken through the online store www.sonderregulacion.com. All our orders are confirmed before serving them.

Judicial competence

Both parties submit in case of divergence to the jurisdiction of the Courts and Tribunals of Rubí, waiving any other jurisdiction that may apply, even in the case of effects with payment domiciled in another population, which are not subject to executive judgment. .ción, que no sean objeto de juicio ejecutivo.

Transport

Whatever the conditions and the manner of issuance, our goods travel at the expense and risk of the recipient or buyer.

In case of less than € 600.00 net material, possibility to include freight in invoice, in Peninsula, Spain. Islands, Ceuta and Melilla excluded; Portugal € 1,000 net material in Peninsula, Islands excluded.

Paid shipping for orders over € 600.00 net material in Peninsula, Spain. Islands, Ceuta and Melilla excluded. Portugal € 1,000 net material in Peninsula, Islands excluded. Other territories will be quoted

Warranty

All our devices are marked at the factory. The commercialized material is sold under the guarantee and responsibility of the manufacturer, without the responsibility of the company Sonder simple seller, can be passed on for any reason of this.

Our guarantee on manufactured products Sonder is considered 3 years. It is limited to the replacement of the defective part (Installation and travel excluded). We disclaim all responsibility for damaged devices, as a result of incorrect handling or incorrect installation.

Those marketed are subject to the manufacturer's warranty.

Repairs and SAT (Technical Assistance Service)

Call the telephone 807.117.001 special charge according to company, available only in Spain. From out Spain +34.935.884.211.

In the event of a possible failure, it must be shipped prepaid to the factory. It is Sonder who determines the causes and responsibility of the ruling, whether the incident is resolved with a change in warranty or repair, Sonder prepares a report of causes and actions, which are sent together with the device.

No new material will be brought forward, without invoicing, until the reception of the supposedly incorrect material after its analysis and report.

In case of guarantee, Sonder will proceed to process it under the terms included in this concept. And the device will be shipped paid to the sender.

If, on the other hand, it is not guaranteed, it has a cost of € 8 + VAT for the review and diagnosis of the anomaly.

If instead of a repair, it is software update, it has a cost of € 5 net + VAT.

The material will be returned under the same conditions as received. The repair does NOT include packaging, nor sealing, nor probes, nor any item not received.

Delivery Deadlines

The delivery times indicated in the offers are given as a guide. A delay can not, in any case, justify the cancellation of an order or request any penalty. Los plazos de entrega indicados en las ofertas son dados a título orientativo. Un retraso no puede, en ningún caso, justificar la anulación de un pedido o pedir penalización alguna.

Returns

No return will be accepted without our prior written authorization, which will be assigned a reference to include in the delivery note and shipping labels.

The maximum period of admission is 15 days after receipt of the material. Returns will always be postage paid.

In case of return due to shipping error, or for causes attributable to Sonder, we will send our Agency to collect it.

In the returns must include the delivery note with reference indicator of purchase of material (no delivery note or invoice and date).

All merchandise returns will be depreciated by 10% of the net invoiced value, by way of participation in our review costs. With a minimum of € 12. Sonder reserves the right to make a greater demerit in case of estimating it necessary in concept of packaging for its sale.

The payment will be deducted from the next purchase.

Opening and Maintenance of Customer Account

Customer Account Opening: first purchases for values below 600 € net in merchandise value, must be made online (Online Store) under the commercial conditions of this.

Maintenance of Customer Account: requires a minimum of 600 € annual purchase net in merchandise value. In case of non-fulfillment the conditions of the account are canceled and a new Customer Account Opening must be carried out.

Note

Our equipment is to control the temperature. They are not security limiters, except those that are already designed for it. Every installation, according to the current regulations must have a temperature regulating device and another safety limiter. Not being, therefore, responsibility of Sonder, those facilities without security limiter.

All rights and contents of this document reserved. Prohibited the total or partial reproduction of this publication by any means without the prior written authorization by Sonder Regulación, S.A. The graphics and information described in this document are indicative, and may include technical or typographical errors. Sonder Regulación, S.A. reserves the right to modify this document without prior notice. Realization, design and photocomposition: Sonder Regulación, S.A. Specifications and characteristics of the products described here can be modified without prior notice.

Some products may suffer price changes because of Brexit

Sonder Regulación, S.A.; Avda. La Llana, 93; Pol. Ind. La Llana; 08191 RUBÍ; SPAIN
Telf: +34 935 884 211; Fax: +34 935 884 994; info@sonderregulacion.com;
www.sonderregulacion.com

