Installation





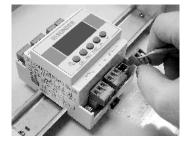




ASSEMBLY NOTE

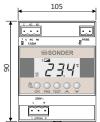
Before making any electrical connections, ensure that the control is disconnected from the power supply.

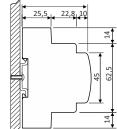
Any manipulation of the control is to be performed only by qualified personnel.



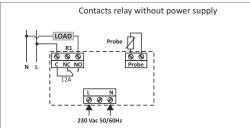


Measures mm





Electrical Drawing



Guarantee Conditions

This appliance has a three-years guarantee limited to replacement of defective parts. Transports not included.

We will not accept any responsibility for damage caused to the appliance by poor handling.

- The guarantee does not include:
- Appliances with a damaged, effaced or altered series number.
- Appliances which have not been connected or used following the instructions that accompany it.
- Appliances which have been altered without the prior consent of the manufacturer.
- Appliances damaged by blows of liquid spills or gaseous emissions.

For the rest of general conditions visit our web.

VERY IMPORTANT:

Before opening the box, to access the connection, make sure the voltage switch.

This controller is not a safety device, or can be used as such, it is the responsibility incorporate adequate protection to every type of installation (homologated) installer.

The probe cable must be as far away as possible from other electrical conductors. Its maximum recommended by current regulation length should not exceed 3 meters. If need lengthen, it is to be done by welding and shrink to keep reading value and isolate from moisture.

Independent control device mounting, and connection via fixed pipeline.

Reserved the right of modify without prior

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Operation

- 1.- When the appliance is switched on, the display shows "---", " P, r" "---" & the temperature detected by the sensor. Press \(\shor \) and the setpoint temperature value appears blinking.
- 2.- To change the setpoint press while blinking, to increase or decrease the desired temperature. The temperature is memorized after 3 seg. of not playing the keys.

Factory Settings

Function Description	Adjusted to	Scale
Temperature setpoint	4,0°C.	-40 to 140°C
diF Temperature differential (hysteresis)	1,0°C.	0,3 to 9°C
HSE High setpoint	99°C.	-40 to 140°C
LSE Low setpoint	40°C.	-40 to 140°C
doF Minimum time for off	2 minutes.	0 to 15 min
C-H Control type	rE.	rE ⇔/ cA <u></u>
CAL Sensor calibration	0°C.	-9.0°C to +9.0°C
dit Defrost timer	24 Hours.	1 to 168H
dEt Defrost stop time	0 minutes.	0 to 99 min
tPP Time to acces to Prog. Parameters	5 seconds.	3 to 40 Sec.
PAS Parameter access code	Deactivated.	0 to 99

The factory settings are those considered to be the most common for normal use of installations. If they are right for your purposes, your thermostat is ready to control and regulate your installation. If you should need any other settings please read this manual carefully.

- -Manual DEFROST: Press OK for 10 seconds. The "dEt" duration cycles starts during wich "dEF" is shown on the display.
- -Automatic DEFROST: performed every number of hours indicated in the "dit" parameter, lasting the time set in the "dEt" parameter.
- -TO CANCEL ALL TYPES OF DEFROST, program the "dEt" to 0.

Description of Parameters

- The display shows the temperature detected by the sensor.
- Differential (diF): Temperature values between energizing and releasing.
- High setpoint (HSE) and Low setpoint (LSE): The temperature limits within which the setpoint can be adjusted and set.
- Minimum off time (doF): Delay time applied when the compressor stops and which prevents the compressor restarting even if conditions for this are met. This delay is also applied after switching on the thermostat to protect the compressor in the event of a power outage.
- Control type (C-H):
- "rE" (*) type: The relay disconnects when the temperature falls to the setpoint and will connect when it rises to the setpoint plus differential.
- "cA" () type: it disconnects when the setpoint is reached and will connect when the temperature falls to setpoint minus differential.
- Sensor calibration (CAL): This function enables you to change the displayed temperature.
- Defrost timer (dit): Interval between the start of two succesive defrosts expressed in hours.
- Time-out defrost finish (dEt): After this time has elapsed (in minutes) defrost finishes. Zero indicates defrost disabled, "dEF" appears on the display during defrost.
- Time of acces to programming of parameters (tPP): it is the time that should be pressing the key PRG. to enter in the programming of parameters, either to modify them or to visualize their values. (Time expressed in seconds)

- Parameters access code: Factory setting zero (disabled). Enter parameter programming by pressing and holding down PRG for 5 seconds If the code is other than zero, enter parameters
- A.- "PAS" is briefly displayed and then the message "- 0 -"; Use the up or down arrows to select the previously programmed parameters access code.
- B.- Press OK: If the selected number is the correct one, "diF" appears. If the selected number is incorrect the thermostat will not allow access to programming and "---" appears.

Parameters Programming

- 1. Press **PRG** during the time settled down in the parameter tPP (of factory 5 s.) & "diF" appear in the screen. Release the key.
- 2. pressing **OK** their current value will appear blinking.
- 3. While value is blinking, press or to change the desired value. Press OK to store it in memory. The designation of the parameter being programmed reappears.
- 4. Press ★ to scroll forward to the next parameter. Repeat № 3.
- 5. Press **PRG** to exit the parameters "---" appears and then the current temperature detected by the sensor. After 1 minute without pressing any key, the thermostat leaves programming of parameters.

Relay Display



Fixed in the display indicates that the relay is on. Flashing in display indicates that control is waiting for the time doF parameter to activate the relay.

ERROR Indicators

"ES" Probe Error: Probe is disconnected or its wires are cut.

"ALP" Required temperature beyond limits (HSE & LSE limits).

While "ES" and "ALP" are activated a continuous emergency cycle occurs: rE mode: 10 min ON - 5 min OFF

cA mode: 5 min ON - 5 min OFF

"AL" The room temperature is beyond the limits marked by the HSE & LSE parameters. AL & temperature detected by probe.

Reset settings to factory defaults

- Disconnect the control power and reconnect, wait until see on the screen the temperature reading.
- Press **OK** until see on the display "- - " (aprox. 40 seconds).
- The settings return to the factory settings if you has the password disabled ("- 0 -").

Technical Specifications

Power Supply:	. 230Vac +10%, -15% 50/60Hz
Probe (without polarity):	PTC2000 IP65 -40 to +140°C
Resolution:	
Relay - Breaking power (potential	s free contacts): 12(5)A 250V~
Maximum cable section to conn	ect: 2,5mm ²
Environment: Tmin. 0°C	C, Tmax. 45°C , %H.R. 20 85 %
Storage temperature:	maximmum 50°C
Protection degree:	IP20
Pollution degree:	2
Action type According EN 60730	D: 1.B