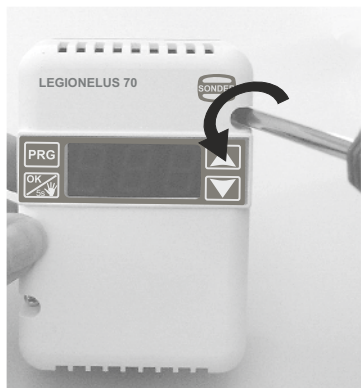
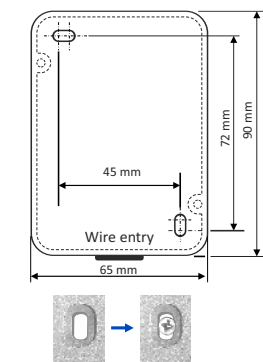


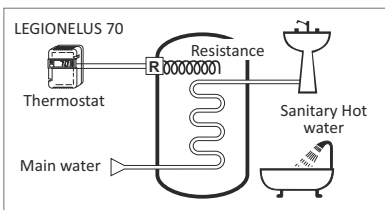
**Installation**



**Measures for wall installation**

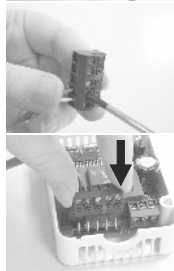
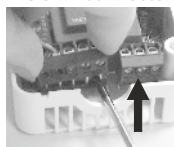


**Example of application**



The **Legionelus 70** is equipped with a temperature rise cycle that allows the start, the temperature to reach, all the time of the repetition and the duration of the cycle.

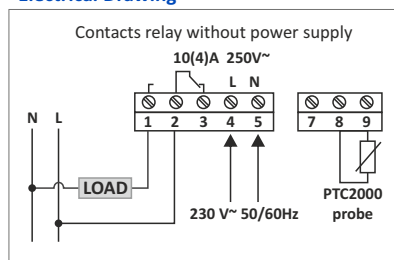
**PLUG-IN Connector**



**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.

**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. 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 notice.

**Sonder Regulación, S.A.**

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Cód: 4960V6 - ESP - ENE18

**Description**

The Legionelus 70 has two functions: Thermostat and High temperature cycles for hygiene.

1 - The thermostat function is defined by the set point temperature and the **dIF** parameter. Connect the relay when the temperature of probe 1 is below the set point minus the value of **dIF** and disconnect the relay when it reaches the set point temperature plus the value of **dIF**.

2 - The safety device function is carried out by means of a high temperature cycle (rail-din version) has a second support relay for the high temperature cycle), for this it incorporates an internal clock in real time that allows it to define the start, the temperature to reach, how often you have to repeat it and the duration of the cycle.

When the device is connected to the mains supply for the first time, it indicates "--" "LG" "--" and then alternates **SET** and temperature. You have to enter programming to configure the internal clock (**Hor**, **Min** and **dAY**). This data is only erased from the memory when the power is off for two weeks in a row or a reset is made.

Hygiene function can be performed in manual mode or in automatic mode (**Mod** parameter).

In **automatic mode** the high temperature cycles are defined by the parameters **Hoi**, **Mii**, **dAi**, **rEP**, **dEt** and **HAL**. Pressing **OK** can perform a high temperature cycle in manual mode without affecting the next cycle programmed in automatic mode.

In **manual mode**, the **Hoi**, **Mii**, **dAi** parameters are annulled, so whenever you want to perform a high temperature cycle you have to force it by pressing the key **OK**.

**Enter in menu of parameters programming**

- 1 - Press **PRG** during the time defined in the parameter **tPP** (of factory 5 seconds) & "Hor" appear in the screen, whenever **PIN** sets "0" otherwise enter the value to access the parameter programming.
- 2 - Press **▲** or **▼** to select the parameter you want to change.
- 3 - Pressing **OK** their current value will appear blinking.
- 4 - 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.
- 5 - Press **▲** or **▼** to scroll forward to the next parameter. Repeat number 3 and 4.
- 6 - Press **PRG** to exit the parameters **LG** & "--" appears and then the current temperature detected by the sensor. After 1 minute without pressing any key, the thermostat leaves programming of parameters.

**Parameters...Description Factory settings Scale**

-	Setpoint temperature.....	40	10 to 95°C
Hor...	Internal clock hour.....	0	0 to 23 H
Min...	Internal clock minute.....	0	0 to 59 min
dAY...	Internal clock day of week.....	1	1 to 7
Hoi...	Start hour of the cycle.....	2	0 to 23 H
Mii...	Start minute of the cycle.....	0	0 to 59 min
dAi...	Start day of week of the cycle.....	1	1 to 7
rEP...	Nr of days between cycles.....	7	1 to 25
dEt...	Cycle duration at temp. elevated.....	5	5 to 120 min
HAL...	Cycle temperature.....	70	50 to 90°C
Mod...	Operating mode.....	AuT	AuT / Man
dIF...	Temperature differential (Hysteresis)....	1.0	0.3 to 9.0°C
HSE...	High set point.....	95	10 to 95
LSE...	Low set point.....	10	10 to 95
doF...	Minimum time for off.....	0	0 to 15
CAL...	Sensor calibration.....	0.0	-9.0 to 9.0
tPP...	Time to access to prog. parameters.....	5	3 to 40 sec.
PIN...	Parameter acces code.....	0(deactivated)	0 to 99

**Setpoint temperature for the thermostat function**

- 1 - The display will show the temperature detected by the sensor. Press **▲** or **▼** and the set point temperature value appears blinking.
- 2 - To change the set point press **▲** **▼** while blinking, to increase or decrease the desired temperature. The temperature is memorized after 3 seconds of not playing the keys.

**On screen display**

**ELG Error during the high temperature cycle:** if after 5 hours the desired temperature for High temperature cycle is not reached (parameter **HAL**), the display will flash **ELG** and the device will exit the Cycle, this message will only disappear if in the next cycle the temperature is reached (**HAL**).

**Relay display:** fixed symbol on the screen indicates that the relay is running. Blinking indicates that the relay is waiting for the time of the **doF** parameter to activate.

**High Temperature Cycle:** fixed icon of second relay, indicates that the appliance has started the high temperature cycle (determined in the parameters **HAL** and **dEt**).

**Manual Mode:** Means that the operation of the high temperature cycle is in manual mode and is displayed alternating with the temperature detected by the probe. In this mode the parameters **Hoi**, **Mii**, **dAi** and **rEP** are annulled.

**Forced Manual Cycle:** Pressing the **OK** key for 5 seconds enters and exits the forced high temperature cycle. If the device is operating in automatic mode, this action does not interfere with the programming of the next high temperature cycle.

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

**AL "AL" The room temperature is beyond the limits marked by the HSE & LSE parameters.** the screen shows in alternating mode **AL** & temperature detected by the 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 "--" (approx. 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.
Breaking power (potentials free contacts):	10(4)A 250V~.
Probe (cables without polarity):	PTC2000 IP65, -40°C to +140°C.
Temperature scale for the thermostat function:	+10°C to +95°C.
Temperature scale for the cycle function:	+50°C to +90°C.
Maximum cable section to connect:	1,5mm <sup>2</sup> .
Resolution:	0,1°C.
Environment:	Tmin. 0°C, Tmax. 45°C, %H.R. 20 ... 85%.
Storage temperature:	maximum 50°C.
Protection degree:	IP20.
Pollution degree:	2.
Action type according EN 60730:	1.B.