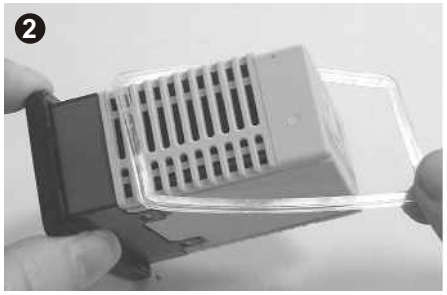
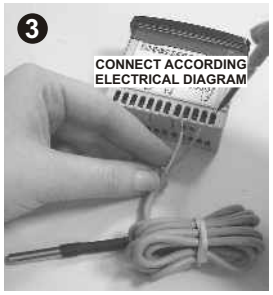
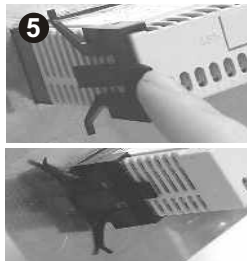
EA 61, EA 101 y EAS 62

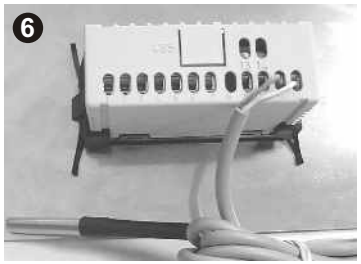
ELECTRONIC THERMOMETER

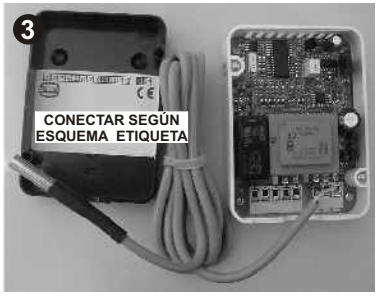
INSTALLATION AND USE INSTRUCTIONS

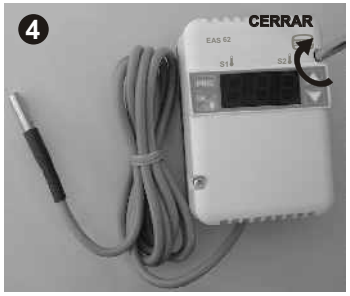












Guarantee conditions

EA 61, EA 101 y EAS 62

This appliance has a two-years guarantee limited to replacement of defective parts.

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 or liquid spills or gaseous emissions.

VERY IMPORTANT !:

The probe cable has to be kept as far aways as possible from other electrical conductors.

The maximum lenght recommended under actual standard must be less than 3 M.

It is the installer's responsibility to fit electrical protection suitable for the installation **(STANDARDIZED).**

Reserved the right of modify without prior notice.

Sonder Regulación, S.A.

Avda. La Llana, 93

08191 RUBÍ

(Barcelona) Spain

www.sonder-regulacion.com

AENOR ER Empresa Registrada ER-0501/1998

Cód: 5436VØ ING.-03/06

EA 61, EA 101 y EAS 62

ELECTRONIC THERMOMETER

INSTALLATION AND USE INSTRUCTIONS

OPERATION

When the appliance is switched on, the display will show "---", "tEr" "---" and the temperature detected by the probe. If you have a second probe connected (it should buys separated), the temperatures in display will go alternating.

The thermometer keep the maximum and minimum of temperature detected by the probe. To see the maximum temperature push the key ⌄ and to see the minimum temperature push the key ⌃. If you push by 5 seconds the key OK, you delete the set values of maximum and minimum temperature.

FACTORY SETTINGS

Nº	FUNCTION	VALUE	SCALE
CL1	....Calibration probe 1	0ºC	-9,0 to +9,0ºC
CL2	....Calibration probe 2	0ºC	-9,0 to +9,0ºC
SEL	....Selection values max & min	P12	P12 / P1 / P2
DSP	....Dislay show probe	ALt	ALt / Fij
tPP	.....Time parameters prog	5 sec.	3 to 40 sec.
PAS	....Parameters acces code	0 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 due to the requirements of your installation, please read this manual carefully.

DESCRIPTION OF PARAMETERS

- **Calibration probe 1 (CL1)**: This functions allows change the temperature visualized by the sensor 1.
- **Calibration probe 2 (CL2)**: This functions allows change the temperature visualized by the sensor 2.
- **Selections of probe to store Tª max y min (SEL)**: with this parameter can choose which probe store the max & min temperature.
"P12" : Probe 1 & probe 2
"P1" : Only probe 1
"P2" : Only probe 2
- **Display show probe (DSP)**: Selection of mode that shows the display the probes temperatures.
ALt: temperature of probe1 & probe2 are alternating every 10 seconds.

Fij: probe temperature fix on the display, push **OK** to fix the other probe (a fix point below symbol indicates which probe are displayed).

- **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 s. If the code is other than zero, enter parameters as follows:

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 sec.) and " **CL1** " will 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 point 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.

ERROR INDICATORS

"ES" Probe Error: Probe 1 and probe 2 are disconnected or its wires are cut.

PROBE VISUALIZATION

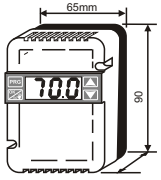
EAS 62 S1 S2

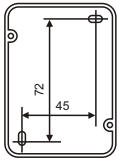
EA 61 EA 101 1 2

A fixed light below the symbol indicates which sensor corresponds the temperature that shows the display.

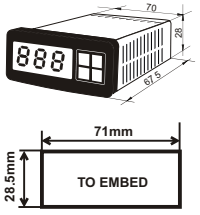
DIMENSIONS & ASSEMBLY

EAS 62





EA 61 Y EA 101

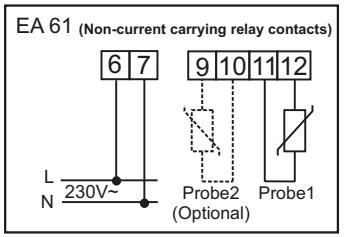


TECHNICAL SPECIFICATIONS

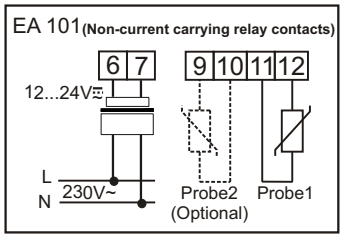
Display:.....3 Digit (Red).
Sensor :.....2 Probes PTC 2000, IP67, -40 a +140ºC.
(PROBE 1 INCLUDED, the probe 2 you must buy by separate)
Resolution:.....0,1ºC.
Power supply EA 61 & EAS 62 :.....230 V~ +10%, -15%. 50/60Hz.
Power supply EA 101 :..... 12...24V⎓.
Connections probe:.....without polarity.
Connected wire section:.....1,5mm².
Grado protection of frontal EA 61 & EA 101:.....IP55.
Grade protection EAS 62 :.....IP20.
Working temperature:.....-5ºC to 45ºC.
Storage temperature:.....de -20 to 60ºC.

ELECTRICAL CONNECTION

EA 61 **(Non-current carrying relay contacts)**



EA 101 **(Non-current carrying relay contacts)**



EAS 62 **(Non-current carrying relay contacts)**