

# e-Clima Setpoints®

TEMPERATURE, HUMIDITY AND PRESSURE PARAMETER DISPLAY  
 Ref: DC.621001-000

## Instruction Sheet

**e-Clima Consignas is a device that allows displaying temperature, relative humidity and pressure parameter values from different sensors installed in a room.**

**The device has pushbutton keypad on front side to change T<sup>a</sup> and HR setpoints.**



### Product Description

This device allows the sequential display of temperature, humidity and pressure values supplied by external sensors; values for each parameter are shown on the screen following a continuous cycle. The unit is automatically configured to display these values based on network variables connected to the sensors through the ISO /IEC 14908 (LonWorks®) communication bus included.

Two versions are available, one without local control and another featuring local control that allows value modification through a front 4 pushbutton keypad, enabling temperature and relative humidity setpoints to be sent through the LonWorks® network to a remote climate control device.

The unit includes an analogue input to connect a temperature sensor (ref. no. AC.000101-000) and display its value directly on the screen.

### Operating Sequence



### Operating Description

**▼ T<sup>a</sup> ▲ Increase/decrease temperature setpoint**

Allows increasing/decreasing the temperature setpoint value and sends the data through the bus.

**▼ HR ▲ Increase/decrease humidity setpoint**

Allows increasing/decreasing the humidity setpoint value and sends data through the bus.

Automatic startup after a voltage drop, LCD backlight enabling, external temperature sensor input activation and display time for each parameter, may be defined through its configuration variables.

LCD backlight turns off automatically after 5 seconds unless configured for continuous operation

## Installation Instructions

This device should not be installed on shelves, behind curtains, above or near heat sources, or exposed to direct sunlight. For fast and accurate ambient temperature measurement, the display should be installed such that air may circulate vertically.

Installation height should be approximately 1.5 m from the floor.

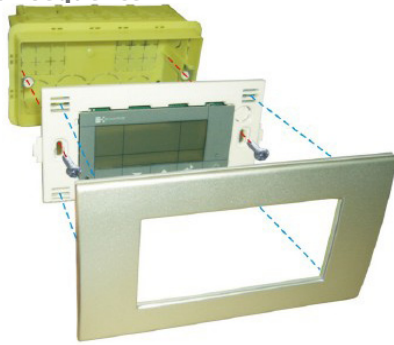
### Caution:

Prior to installing or removing the device, ensure that there is no mains voltage present in the wiring to be connected or near the unit.

Do not cut or wind network cables that are wired to the unit.

Do not work on the wiring with wet hands.

### Installation sequence



Do not open or pierce the unit.

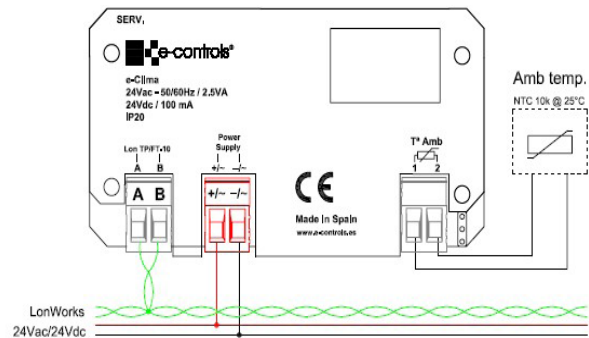
Keep the device and the supply wires away from moisture and dust.

Use a damp cloth to clean the device.

### Installation Steps:

- 1° Install the Bticino 504E standard back box
- 2° Insert the e-Clima unit and screw on to the back box
- 3° Fit the frame onto the device

## Wiring Diagram



## Technical Features

### Supply Power

Operating voltage . . . . . 24 Vca ±20%; 50/60 Hz  
24 Vcc  
Power consumption . . . . . 0,9 VA  
110mA

### Communications

Technology . . . . . LonWorks®  
Standar . . . . . ISO/IEC 14908  
Protocol . . . . . LonTalk®  
Transmission channel . . . . . TP/FT-10; 78 kbps  
LonMark® compatible device

### Temperature sensor inputs

Sensor type . . . . . Resistive  
Sensor characteristics . . . . . interchangeable NTC, 1%  
10 kW at 25°C (77°F)  
Temperature measuring range . . . . . 10°C to 40°C

### Pushbuttons and indicators

+T / -T / +HR / -HR  
Service Pin (SERV) - back side

### Received parameters through network variables

Temperature range . . . . . -199,9° to +199,9° (°C / °F)  
Temperature resolution . . . . . 0,1°C (-99,9 to 99,9) / 1° (remainder)  
Temp. setpoint range . . . . . -50°C to +50°C (-125°F to +125°F)  
Humidity range . . . . . 0% a 99%  
Humidity resolution . . . . . 1%  
RH setpoint range . . . . . 0% a 99%

## Product References Nos.

e-Clima Setpoints® . . . . . DC621001-000

Pressure range . . . . . -99Pa to +99Pa  
Pressure resolution . . . . . 1Pa

### Temperature

Operating . . . . . 0°C to +50°C (32°F to 104°F)  
Storage . . . . . -20°C to +85°C (-4°F to +185°F)

### Humidity (non condensing)

Operating . . . . . 10% to 90% RH at 50°C  
Storage . . . . . 95% RH at 50°C

### Dimensions, weight and installation

Dimensions . . . . . 136x70x50 mm  
Weight . . . . . 215 gr.  
Flush mount back box . . . . . Bticino 504 E (not included)  
Frames . . . . . Bticino, Light series (not included)  
Plug In connectors . . . . . YES  
Conductor cross sectional area . . . . . 0,5 mm<sup>2</sup> a 2,5 mm<sup>2</sup>  
Protection index . . . . . IP20  
Electrical safety . . . . . Class III

### Product standard

Automatic electrical controls for household  
and similar use . . . . . EN 60730-1

### CE Conformity

Low Voltage Directive . . . . . 2006/95/EC  
Electromagnetic Compatibility Directive . . . . . 2004/108/EC

### Regulations

Safety . . . . . EN 60730-1  
Emissions . . . . . EN 61000-6-3  
Immunity . . . . . EN 61000-6-1

## Related Products

e-Clima® . . . . . DC.621000-000  
External temperature sensor, pure white . . . . . AC.000101-000  
External temperature sensor, brushed aluminium . . . . .  
. . . . . AC.000101-001  
230 Vca a 24 Vca transformer . . . . . AC.300000-000  
115 Vca a 24 Vca transformer . . . . . AC.400000-000

The package of this product is considered as industrial packaging; intended for professional use only.  
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