e-Display



Display for fan-coil control with temperature sensor and pushbuttons Ref: RD. 970000-000, e-Display Ref: RD.670001-000, e-Display Modbus Ref: RD.671002-000, e-Display HR Modbus

Instruction Sheet

e-Display is an interface for control and management of a climate zone through a fan-coil controller. The device is including a temperature sensor for ambient temperature measurement, a large backlighted display and some pushbuttons to manage the climate control.

The product is based in a family of devices with different features and protocols, including an specific model for the e-Room Controller fan-coil control and some other models with Modbus protocol for BMS remote management, with different sensors for measuring some parameters in the zone.



Product description

The visualization display e-Display is a device based in a product family with different features and protocols, used to manage a fan-coil controller directly or through a remote control. The device is including in all models, a large backlighted display where the ambient temperature can be displayed, but also the setpoint temperature, fan-coil speed and some icons to inform about the climate control status and the zone status. A temperature sensor and some pushbuttons are also included in the device. An RS-485 interface is available to communicate the device with other devices in the network.

The e-Display model, ref. RD-970000-000 is used to manage the different models of the e-Room Controller fan-coil controller, the stand-alone models and also the ones with remote

communication. When the e-Display is managing an standalone device, it is used to configure the different parameters of the controller through an easy to use configuration menu.

The e-Display Modbus model, ref. RD.670001-000 is including the Modbus communication protocol with some registers to configure, monitor and control the display remotely from a BMS management system.

The e-Display HR Modbus, ref. RD.671002-000, is including in addition to the temperature senor, a humidity sensor. All those parameters are sent using the Modbus protocol to a BMS management system.

Product installation

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 controller 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 roll up the wires to be connected to the
- · Do not work on the wiring with wet hands.
- Do not open or drill through the device.
- Keep the device and the supply wires away from moisture and dust.
- Use a damp cloth to clean the device.

Installation steps:

1º Install the flush mount back box on the wall

2° Connect all wires to the appropriate device terminals ensuring that there isn't voltage on it, following the wiring diagram.

- 3º Insert and screw the device in the box
- 4° Fit the frame onto the device
- 5° Remove the front panel anti-scratch protective foil



INS0014513000-0 1 © 2015 e-Controls®

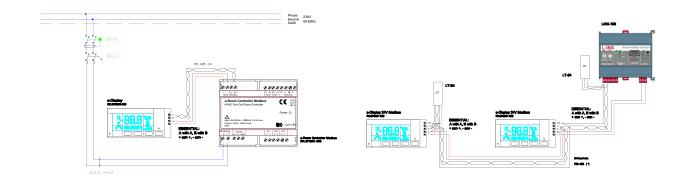
Technical features

Supply power	Temperature
Model RD.970000-000	Operating 0°C a +50°C (32°F a 104°F)
Operating voltage	Storage20°C a +85°C (-4°F a +185°F)
Maximum rated current 28 mA	Humidity (non condensing)
Models RD.670001-000 / RD.671002-000 Operating voltage 24Vcc, 24 Vca ±20%, 50/60Hz Maximum rated current 50 mA Communications	Operating
Interface	Flush mount back box
Terminals	Mount recommended heigh 1,5mts from floor Frame (not included) LNA4804XX
Transmission speed configurable 1200115200 Baud	Mechanical features
Modbus Configuration 8E1, 8O1, 8N1, 8N2	Dimmensions (with frame))
Built-in temperature sensor Temperature measuring range .+5°C to +45°C (+41°F to 113°F) Resolution	Net weight
Humidity sensor Measuring range 5-95 %HR	Protection index
Resolution	CE Conformity
LCD display Type	Low Voltage Directive (LVD) 2006/95/EC Electromagnetic Compatibility Directive 2004/108/EC
Dimensions visible area	Standards Product standard
LED front panel indicator Climate switch onLed switched off StandbyGreen Led switched on Reset device / Communication error Red Led switched on	Electrical safety EN 60730-1:2011 EN 50491-3:2009 EN 50491-4-1:2012
Front panel pushbuttons +T / -T / Fan-Coil Speed / ON-OFF	Electromagnetic compatibility EN 60730-1:2011 EN 50491-5-1:2010 EN 50491-5-2:2010

Installation diagram

RD.970000-000 - e-Display

RD.670001-000 - e-Display Modbus



Herein is defined a functional diagram. It shall be the responsibility of the installer to protect the installation properly in accordance with the applicable regulations of each country.

Product reference e-Display HR Modbus, 4 pushbuttons, LCD, Temperature sensor, Humidity sensor, 24Vac/Vdc, Modbus, without network terminatorv. RD.671002-000 Documentos relacionados Installation diagram DEC Configuration Manual DMCEN User Manual DMUEN

The package of this product is considered as industrial packaging; intended for professional use only. The manufacturer is not responsible of the incorrect installation or use of the products. Specifications are subject to change without notice. INS1014513000-0 2

