

Electronic Intelligent Controls, S.L. Passatge Garrotxa, 6

08830 Sant Boi de Llobregat Barcelona, Spain

Tel.: +34 93 652 55 21 Fax: +34 93 652 55 22

www.e-controls.es info@e-controls.es

e-Touch Display Mini

Touch Display with air quality sensors for climate and air renovation control

e-Touch Display Mini is a touch display designed for controlling HVAC systems, lighting, and motorized curtains. It features built-in sensors for measuring Temperature, Humidity, CO2, and VOCs (Volatile Organic Compounds), depending on the model. This device is particularly suited for managing climate control and air renewal in hotel rooms, offices, hospitals, and schools. Some models include up to 8 buttons, allowing users to combine HVAC control with the management of lighting and motorized curtains.

The device connects to a base called e-Bus Coupling Surface for surface mounting, which is purchased separately. This base is available in two different versions: one with RS-485 communication for connecting to the e-Room Modular controller family and another with the Modbus RTU protocol for integration into a Modbus network, where a Master device handles network communication.

Product description

The device is equipped with various buttons for HVAC control, depending on the selected model, as well as buttons for controlling lighting, curtains, or underfloor heating. When connected to an e-Room Modular controller, it manages HVAC and other systems based on the chosen configuration. When integrated into a Modbus network, it can display environmental parameters, either from its built-in sensors or from external sensors connected to the network, managed by a Master

A proximity sensor and light sensor located at the top-right corner detect hand presence up to some centimeters away, automatically turning on the display. The light sensor can also dim the display when the room lights are turned off, minimizing disturbance in dark environments.

Device configuration

The device includes an NFC interface and an integrated antenna for configuration via the EConfigurator App on Android devices. Configuration can be performed with or without power, simplifying maintenance. If connected to an e-Bus Coupling Mount at a height of approximately 1.5 meters from the floor. Surface Modbus, configuration can also be done through the Modbus protocol. Configuration via App: Open the EConfigurator App and select the display and coupling model. Access all configurable parameters based on the chosen model. Adjust the parameters as needed and transfer the configuration via NFC. When configuration is transferred to the device, the OnOff LED indicator blinks in purple color.

Detailed instructions for all parameters are included in the configuration manual.

Instruction sheet







Product installation

The system consists of three parts, sold separately: The front panel e-Touch Display Mini, the mounting frame e-Bus Coupling Surface and the decorative

For accurate CO2 measurements, install one unit per 30 m².

Product assembly process

- 1. Fix the e-Bus Coupling Surface mounting frame to the wall using two screws. Important: Ensure the frame is positioned with the "TOP/ARRIBA DISPLAY" marking facing upwards.
- 2. Connect the cables to the frame as indicated in the installation diagram.
- 3. Seal conduit openings to prevent air circulation inside the device.
- 4. Attach the decorative frame to the coupling using the top and bottom clips. Ensure the frame's vents are aligned at the top and bottom.
- 5. Insert the e-Touch Display Mini into the frame.
- 6. Remove the protective film from the front panel.
- 7. Power the device and verify the LED indicator lights up.

Avoid installing on shelves, behind curtains, near heat sources, or in direct sunlight. Ensure vertical air circulation for accurate temperature readings.

Precautions

- · Ensure the power supply is disconnected before installation or removal.
- Avoid cutting or coiling network cables.
- Do not handle connections with wet hands.
- · Do not open or pierce the device.
- · Keep the device and cables away from moisture and dust.
- · Clean using a damp cloth with water only.

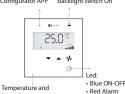
The packaging of this product is considered an industrial container, with the recipient being a

The manufacturer is not responsible for the incorrect use or installation of the product. Read this document before installing the product. Document subject to changes without prior

Product installation

Components location:

NFC antenna for Light and proximity data transfer with sensor for automatic EConfigurator APP backlight switch On



· Purple: NFC



Fix frame to wall

Product assembly process:



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Attach front to frame



Technical specifications

humidity sensors

Power supply	On/Off Led indicator
Operating voltage	On/Off function
Temperature sensor	Default values:
Measurement range	HVAC Off
Resolution	HVAC ON
Typical precision between -10 and 60 °C	Reset device / Alarm
Loss of precision throughout its life	Working temperature
Relative humidity sensor	Operation
Measurement range	Storage
Resolution	
Typical precision between 0 and 80 °C	Humidity (non-condensing) Operation
Loss of precision throughout its life	
Sensor CO2	Storage
Technology NDIR (Non-dispersive infrared technology)	Mechanical installation
Measurement range	Installation type
Resolution	Recommended mounting height
Accuracy	
Stability with temperature ± 2,5 ppm/°C between 0 and 50 °C	Dimensions (with frame)
Loss of precision throughout its life	Depth (depending on frame selected and assembly)
Stable measurement value	
Shelf life	Environmental protection level (assembled)
Volatile Organic Compound	Electrical security
Measurement range	CE conformity
Resolution	Low Voltage Directive (LVD)
Precision	Electromagnetic Compatibility Directive
Front panel sensors	Applicable harmonized standards
NFC interface for device configuration through APP.	Product standard
Proximity field sensor for automatic switch On LCD backlight.	EN 50491-3:2009
Light sensor for automatic switch Off LCD backlight.	Electrical security EN 50491-3:2009
Pushbuttons	EN 50491-4-1:2012
Type	Electromagnetic compatibility EN 50491-5-1:2010
Quantity and functions	
LCD Display	EN 50491-5-2:2010
Type	IEC Protection
Visible area dimensions	NOTES: (*) Available upon request with range 0 to 5000 ppm
Backlight color	NOTES. () Available upon request with range o to 3000 ppm

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Fix frame to coupling unit

Ordering numbers

e-Touch Display Mini T+HR 4P White, Touch display with Temperature and humidity sensors, 4 pushbuttons, Front white	. TM.214000-000
e-Touch Display Mini T+HR+CO2 4P White, Touch display with Temperature, humidity and CO2 sensors, 4 pushbuttons, Front white	. TM.314000-000
e-Touch Display Mini T+HR+CO2+COV 4P White Touch display with Temperature humidity COL 2 and COV sensors 4 pushbuttons White	TM 414000-000

Related items

Frame e-Touch Display Mini white 22 mm	R.000100-100
Frame e-Touch Display Mini black 22 mm	R.000102-100
e-Bus Coupling Surface RS-485	C.470011-031
e-Bus Coupling Surface Modbus	C.470002-031