

Clima

e-Touch Display Mini



Surface-mounted touch display for climate control



TM.314000-000 with T°, HR and CO2 sensors

Compact touch Display for surface mounting

The **e-Touch Display Mini** is a surface-mounted touch display designed for climate control in hotel rooms, offices, and other spaces. The device integrates environmental sensors for temperature and relative humidity, and optionally CO2 and Volatile Organic Compounds (VOC) sensors, providing accurate measurement of environmental conditions and helping to maintain both thermal comfort and indoor air quality.

Its connection is made through the e-Bus Coupling Surface unit, available in RS-485 versions for native communication with e-Room Modular controllers, or Modbus RTU versions for integration into any automation system using this protocol. This versatility allows the display to be used both in installations with distributed fan-coil control and in centralized BMS systems managing multiple fan-coils in open-plan areas.

The unit features a backlit LCD display and a capacitive touch keypad with an LED indicator on the main ON/OFF key, providing an intuitive interface for the user. Configuration is carried out wirelessly using NFC technology through the E-Configurator APP, allowing operating parameters to be adjusted in seconds — without power supply and without risk of error — even enabling configuration cloning between devices.

In hotel applications, the integrated light sensor automatically dims or turns off the backlight when the room is dark, enhancing comfort during night-time rest. With its minimalist design, smooth lines, and elegant finish, the e-Touch Display Mini represents E-Controls' most compact surface-mounted solution, combining quick installation, advanced environmental measurement, and intelligent climate control in a single device.

Native communication with e-Room Modular fan-coil controllers

Integrated Temperature, Humidity, CO2 and VOC sensors depending on model

Communication through e-Bus Coupling Surface (Modbus or RS-485)

Compact design for surface mounting

Instant configuration using E-Configurator APP via NFC

Minimalist and elegant finish, ideal for hotels and offices

DATASHEET

Temperature, Humidity, CO2 and Volatile Organic Compound (VOC) sensors

Main features

- Integrated Temperature and Humidity sensors, with optional CO2 and VOC measurement.
- Capacitive touch keypad with LED indicator on the ON/OFF key.
- Large backlit LCD display with dual brightness level.
- Communication through e-Bus Coupling Surface (Modbus or RS-485).
- Wireless configuration via NFC using the E-Configurator APP.
- Compact design for surface mounting without the need for a flush-mount box.
- Light sensor for automatic display dimming (hotel mode).
- Minimalist and elegant finish, ideal for hotels, offices, and residential spaces.
- Display with multiple icons for alarm indication.
- Bus coupling and frame not included (order separately).

Technical specifications

- Power supply: via e-Bus Coupling Surface
- Temperature sensor:
 - Measurement range: -10 °C to 60 °C
 - Accuracy: ± 0.2 °C

- Humidity sensor:
 - Measurement range: 0 to 100 % RHR
 - Accuracy: ± 1.8 % RH
- CO2 sensor:
 - Measurement technology: NDIR
 - Measurement range: 400 to 2,000 ppm
 - Accuracy: $\pm (50 \text{ ppm} + 5\% \text{ of reading})$
 - Repeatability: ± 10 ppm
 - Stability between 0 and 50 °C: $\pm (5 \text{ ppm} + 0.5\% \text{ of reading})$
- VOC sensor:
 - Measurement technology: MOx
 - Measurement of ethanol and toluene
 - Measurement range: 0 to 1,000 ppm ethanol equivalent
 - Output value: 0 to 500 VOC points
- User interface: backlit LCD display, capacitive touch keypad
- Communication: RS-485 (Modbus RTU or e-Room Bus)
- Configuration: NFC wireless setup via E-Configurator APP
- Mounting: surface mounting (no flush box required)
- Dimensions: 86 x 86 x 22 mm (W x H x D)
- Weight: 100 g
- Colours available: white (other colours available on request)

Ordering numbers:

TM.214000-000
e-Touch Display Mini THR 4P White
Temperature, Humidity sensors,
4 pushbuttons

TM.314000-000
e-Touch Display Mini THR/CO2 4P
White
Temperature, Humidity, CO2 sensors,
4 pushbuttons

TM.414000-000
e-Touch Display Mini THR/CO2/COV 4P
White
Temperature, Humidity, CO2, VOC
sensors, 4 pushbuttons

Required accessories:



BC.470011-031
e-Bus Coupling Surface RS-485
Bus Coupling Unit for e-Room Modular
communication. Power supply: 24 VDC

BC.470002-031
e-Bus Coupling Surface Modbus
Bus Coupling Unit for modbus RTU (RS-485)
Power supply: 24 VDC

FR.000100-100 Decorative frame, White
Dimensions: 86 x 86 x 22 mm

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