

# e-Touch Display

Touch display for air conditioning control and viewing environmental parameters

Purchase reference: TD.00XX0X-010

**e-Touch Display** is a touch display to control air conditioning and lighting in hotel rooms and offices, and which includes a screen with multiple icons and texts through which environmental parameters from sensors can be viewed, including temperature, humidity, CO<sub>2</sub>, Volatile Organic Compounds (VOC) and pressure. There are 14 models available with different keypad configurations according to the needs of each facility. The equipment requires a bus coupler named "e-Bus Display" to work. This component must be purchased separately and is available in two different models: an RS-485 communication model to connect the e-Room Modular controller family and another model with Modbus RTU protocol to communicate with a Modbus network where a master device manages network communication.

## Function description

The display has a large LCD screen that is used to view - depending on the settings applied - the temperature of the room, the desired temperature selected, different environmental parameters and status icons (see the equipment's operating manual). The equipment includes a temperature sensor and an optional humidity sensor. A proximity and brightness sensor in the top right corner allows the presence of a hand to be detected at 20 cm and then the display is automatically switched on. The brightness sensor can be set up so that when the lights in the

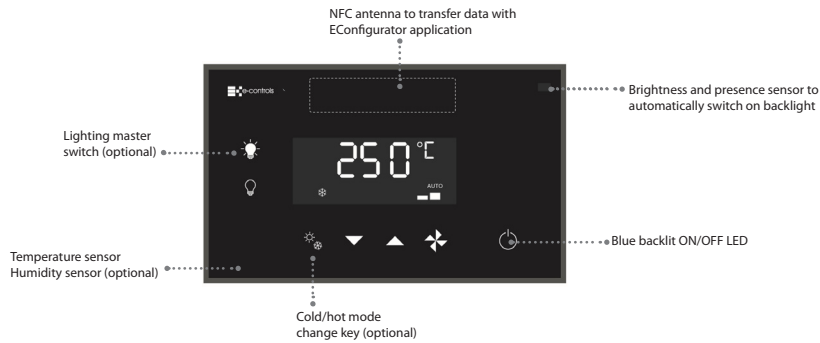
## Equipment setup

The equipment can be set up via the wireless NFC interface and by using the EConfigurator application, which is available for mobile phones with an Android operating system. Setup via NFC can be carried out with the equipment powered or unpowered, such that facility maintenance tasks are facilitated. If the equipment is connected to an e-Bus Display Modbus frame, the equipment can also

room are switched off, the display's light is also switched off so it doesn't cause any disturbances when the room is dark.

The equipment includes a function that allows the touch keys to be disabled for 1 minute so the front panel may be cleaned. To do this, cover the presence sensor with a finger for a few seconds until the text CLEAN appears on the display.

be set up through the Modbus protocol. On the EConfigurator application, select the display model and frame model, which will then show all the setup settings available according to the selected model. Adjust the settings where applicable and download the equipment's configuration.



## Installing the product

The equipment is comprised of two components: the **e-Touch Display** and the **e-Bus Display** frame.

### Assembly:

1. Install the yellow flush-mounted box on the wall.
2. Connect all cables on the frame by following the indications of the installation diagram for the product.
3. Seal the corrugated pipe ducts to prevent air from circulating in the equipment and fix the frame to the box.
4. Fix the e-Touch Display and trim to the frame.
5. Remove the transparent anti-scratch protective screen from the front.
6. Connect the equipment to the power supply and check the display switches on.

The equipment must not be installed on shelves, behind curtains, above or near heat sources, or exposed to direct solar radiation. To quickly and

correctly check the room temperature, the controller must be assembled such that the air can circulate vertically. The assembly height will be approximately 1.5 metres from floor level.

### Precautions:

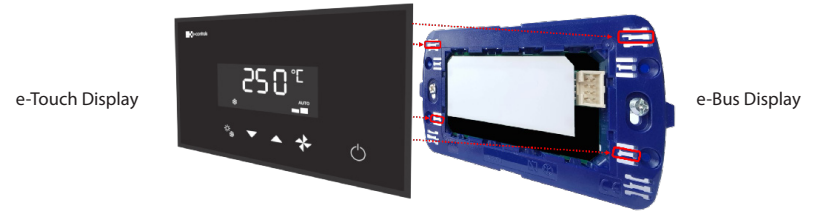
- Before installing or uninstalling the equipment, ensure there is no power from the electrical supply in the cables to be connected or near the equipment.
- Do not cut or wind network cables to be connected to the equipment.
- Do not make connections with wet hands.
- Do not open or pierce the product.
- Keep the equipment and power cables away from moisture and dust.
- Clean the product with a wet cloth (use water).

# Instructions sheet



## Installing the product (continued)

e-Touch Display assembly with e-Bus Display:



## Technical specifications

### Power supply

Through the e-Bus Display

### Temperature sensor

Measuring range . . . . . +5°C to +45°C (+41°F to 113°F)  
Resolution . . . . . 0.5°C

### Front panel sensors

NFC interface to set up equipment using the app  
Close-up sensor to automatically switch on LCD  
Brightness sensor to automatically switch off LCD

### Equipment front buttons

Type . . . . . Capacitive  
Functions . . . . . According to model

### LCD display

Type . . . . . Backlit liquid crystal  
Visible area dimensions . . . . . 64x26 mm  
Lighting type. . . . . White LED

### On/Off LED indicator (according to model)

On/Off function . . . . . Configurable  
Colour (in operation) . . . . . Blue  
Equipment reset. . . . . Red LED switched on

### Working temperature

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

### Humidity (non-condensing)

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

### Mechanical installation

Installation type . . . . . Recessed on wall  
Flush-mounted box . . . . . Bticino 504E  
Recommended assembly height . . . . . 1.5 m from ground

### Mechanical characteristics

Dimensions (with frame) . . . . . 142 x 86 x 8.5 mm  
Weight . . . . . 120 g  
Protection level . . . . . IP20 (EN 60529:1991)  
Electrical safety . . . . . See e-Bus Display

### CE conformity

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

### Applicable harmonised standards

Product standard . . . . . EN60730-1:2011  
EN50491-3:2009  
Electrical safety . . . . . EN 50491-3:2009  
EN 50491-4-1:2012  
Electromagnetic compatibility . . . . . EN 50491-5-1:2010  
EN 50491-5-2:2010

## Purchase references

**e-Touch Display**, touch screen to control air conditioning . . . . . TD.00XXYY-010

TD.00XXYY-010-HR

XX: Number of keys: Select XX Code on table

YY: Colour: 00 White, 02: Black

-HR: Humidity sensor (optional)

Ordering XX	# Pushbuttons	Heat/Cool	- T†	+ T†	Fan Speed	PUSHBUTTON ICON							
						On/Off	- HR	+HR	Lights On	Lights Off	Blinds Raise	Blinds Lower	
00	0												
10	1					X							
20	2		X	X									
30	3		X	X		X							
40	4		X	X	X	X							
41	4		X	X			X	X					
50	5	X	X	X	X	X							
60	6		X	X	X	X			X	X			
61	6		X	X	X	X					X	X	
70	7	X	X	X	X	X			X	X			
71	7	X	X	X	X	X					X	X	X
80	8		X	X	X	X			X	X	X	X	X
90	9	X	X	X	X	X			X	X	X	X	X

Example of purchase: TD.004000-10-HR: Touch screen with 4 keys (-T, +T, Fan speed, On/Off), white finish, temperature and humidity sensor.

NOTES: All models include a temperature sensor. Add -HR at the end to request a humidity sensor with the equipment. Components included in the package: Front e-Touch Display.

The following components must be purchased separately: decorative trim, e-Bus Display frame, flush-mounted box for recessing frame.

## Accessories not included with product

- e-Touch Display white trim . . . . . FR.000100-010
- e-Touch Display black trim . . . . . FR.000102-010
- e-Bus Display RS-485 frame . . . . . BD.470001-011
- e-Bus Display Modbus frame . . . . . BD.470002-011

The packaging of this product is considered an industrial container, with the recipient being a professional. The manufacturer is not responsible for the incorrect use or installation of the product. Document subject to changes without prior notice.