[55010]

Category: Room automation

Room display

DIGICONTROL R4D.RT7

Figure: R4D.RT7

Application

The multi-function terminal is based on a 4.3" display with a touch panel. The use of IP standards allows the display to be connected to BACnet controllers as well as all other controllers of the ems2/ems4 series.
Exceedingly simple and fully configurable display and user interfaces offer the greatest degree of flexibility in application. It is suitable for both room automation as well as complex applications in building automation. Depending on the graphical applications, up to 50 user interfaces can be integrated into a single display. The terminal is supplied with communication and power over the Ethernet (PoE).

Specifications

|	
Input voltage	Power over Ethernet (PoE)
Current consumption during operation	Approx. 5 W
Current consumption during standby mode	Approx. 0.5 W
Current consumption during sleep mode	Approx. 0.1 W
Interfaces	Ethernet (PoE) 10/100 Mbit, RJ45
Display	
Technology	TFT with LED backlight
Diagonal	4.3 inches
Ratio	16:9
Resolution	480x272 pixels
Brightness	350 cd max. brightness control
Contrast	300:1
Viewing angle	75/75/75/45°
Touch panel	4-wire resistive, non-reflective 3H hard coat surface
Miscellaneous	
Operating temperature	0℃ to 50℃
Storage temperature	-20℃ to +85℃
Humidity	5% to 90%, non-condensing
Degree of protection	IP20
Protection class	III
CE conformity	EN55022, EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6

Accessories

R4D.RT7-Alu	-	Frame – Aluminium front panel anodized natural color
R4D.RT7-Eloxal	-	Frame – Aluminium front panel anodized standard colors
R4D.RT7-V2A	-	Frame – brushed stainless steel
R4D.RT7-Glas-sw	-	Frame – black glass front panel
R4D.RT7-Glas-ws	-	Frame – white glass front panel
R4D.RT7-Lack-ro	-	Frame – Aluminium front panel, painted red
R4D.RT7-Lack-sw	-	Frame – Aluminium front panel, painted black
R4D.RT7-E22	-	Cavity wall/flush-mounted dual socket
R4D.4x10/100PoE	-	Industrial PoE Ethernet switch
R4D.1x10/100PoE	-	Industrial PoE Ethernet switch
R4D.RT7-MDR-60	-	power adapter

Ethernet: RJ45 shielded plug, pin signal type
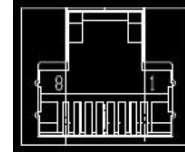
1	TX+ out Ethernet Transmit Data +
2	TX- out Ethernet Transmit Data –
3	RX+ in Ethernet Receive Data +
4	48VDC Power +
5	48VDC Power +
6	RX- in Ethernet Receive Data –
7	GND Power –
8	GND Power –

Dimensions
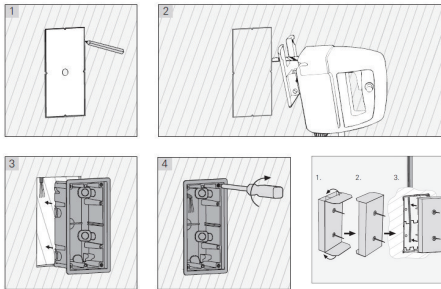

Installation in masonry
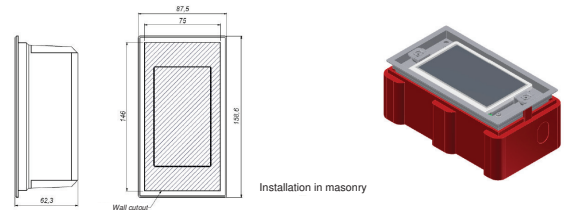
Installation

Installation in cavity wall:

- Cutout for cavity wall socket 146x75 mm. Maximum wall thickness 30 mm
- Insert device into wall and align
- Screw on device socket with claw fasteners. (Attachment as with commercially available cavity wall socket.) The device socket can be corrected by up to 3°.
- Attach the front cover to the device with ball studs.

Installation in masonry:

- Prepare rectangular cutout, insert E22 flush-mounted socket and secure with plaster, for example (two alignment aids are located on the socket for exact placement of the level). Insert plaster protector and plaster wall. Remove plaster protector and cut the opening free.
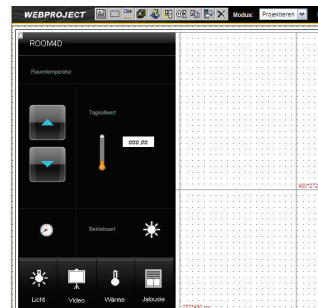- Insert the device as for installation in cavity wall.
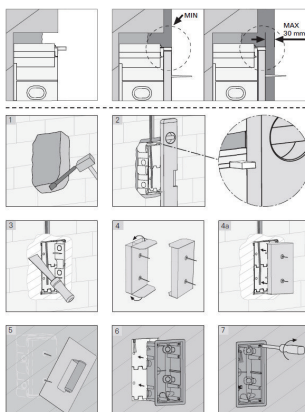
Display orientation

The display can be configured for horizontal or vertical installation/operation using a software switch.

Configuration

The WEBPROJECT HMI library is used to configure the room display.
Basic knowledge regarding the operation of the WEBPROJECT interfaces is required for this.
Detailed information regarding configuration can be found in the "configuration description".
Libraries for standard applications are available in WEBPROJECT and can be extended as required at any time.