

PROGRAMMABLE REMOTE DISPLAY UNIT



PRODUCT DESCRIPTION

RG.RDA.11 is a programmable remote display unit. It can be used as user interface in various home automation systems.

Device feature QVGA (320x240) TFT color display, 10 capacitive keys with two color dimmable backlight and embedded temperature probe.

The device communicates with the rest of the system using RS485 port.

The device can provide additional functionality thanks to a collection of analog and digital inputs and outputs.

TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply | Nominal: 24 VDC, 1 W Voltage range: 12 ... 30 VDC |
| COMMUNICATION CHANNEL | |
| RS485 | BACnet MS/TP or Modbus Slave RTU/ASCII. Programmable baud rate (9600, 19200, 38400, 76800, 115200), Jumper selectable use of termination and polarization resistors |
| USB | USB device, mini USB connector, service port |
| INPUTS | |
| Embedded temperature probe | 1 |
| Potential free inputs | 2 |
| Voltage inputs 0-10 V | 2 |
| OUTPUTS | |
| Transistor outputs 24 VDC/100 mA | 4 |
| Voltage outputs 0-10 V, 10 mA max | 2 |
| ADDITIONAL SPECIFICATIONS | |
| Operating temperature | 0.. +55 °C |
| Storage temperature | -30.. +80 °C |
| Operating humidity | max 95% r.H., no condensation |
| Protection degree | IP20 |
| Mounting | Wall mounting, for indoor use only |
| Dimensions | Built in: 72x53x35 mm. Front panel: 130x102x12 |
| Weight | 200g |

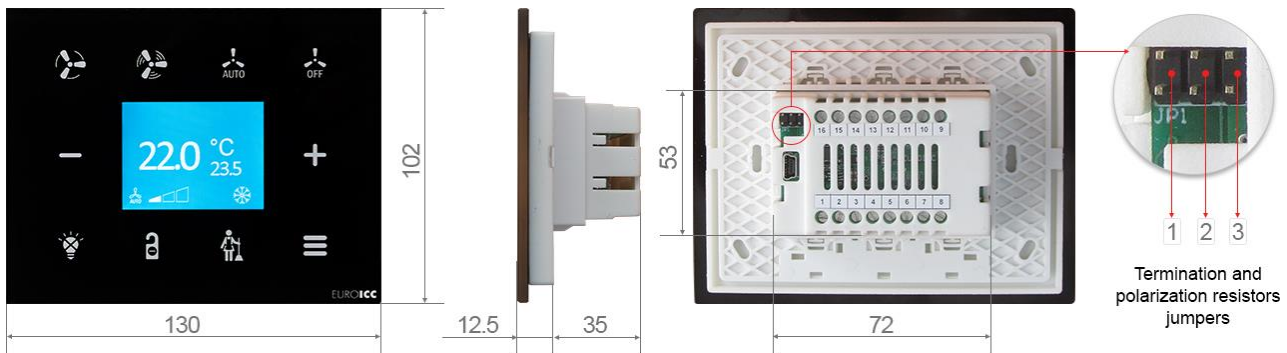
PRODUCT FEATURES

- » 2.44" QVGA color display
- » 10 capacitive keys with bicolor backlight
- » Embedded temperature probe
- » High level of flexibility thanks to a wide range of IO resources
- » Configuration, programming and debugging is done using PC based tool through USB port
- » Resource sharing between controllers through BACnet network. Data sharing is performed without intervention of the supervisory system
- » Jumper selectable standard polarizing and termination resistors on RS485 terminal

WIRING AND RESOURCES

| LOCATION | NAME | DESCRIPTION | ADDRESS |
|-------------|-----------------------|----------------------|---------|
| Position 1 | Power supply 24 VDC - | Device GND | |
| Position 2 | Power supply 24 VDC + | Power supply + | |
| Position 3 | RS485 B- | Communication – line | |
| Position 4 | RS485 A+ | Communication + line | |
| Position 5 | BOUT1 | Binary output | QX20 |
| Position 6 | BOUT2 | Binary output | QX21 |
| Position 7 | BOUT3 | Binary output | QX22 |
| Position 8 | BOUT4 | Binary output | QX23 |
| Position 9 | AIN2 | Analog input | IW2 |
| Position 10 | GND | GND | |
| Position 11 | AIN1 | Analog input | IW1 |
| Position 12 | AOUT2 | Analog output | QW1 |
| Position 13 | AOUT1 | Analog output | QW0 |
| Position 14 | BIN2 | Binary input | IX11 |
| Position 15 | BIN1 | Binary input | IX10 |
| Position 16 | GND | GND | |

DIMENSIONS AND MOUNTING



SAFETY NOTES



- The device is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel.
- Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.