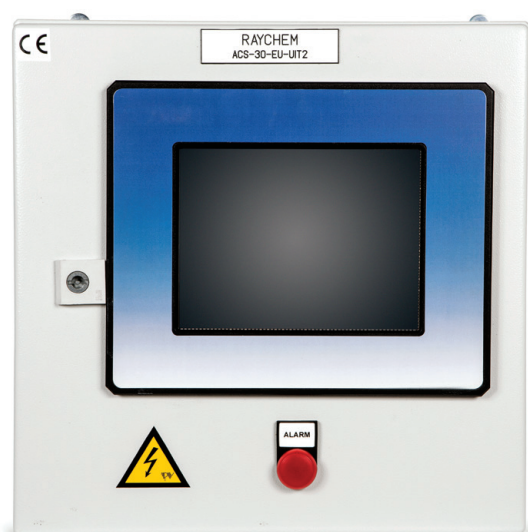


## MULTI-APPLICATION HEAT TRACING CONTROL & MONITORING IN COMMERCIAL AND RESIDENTIAL BUILDINGS



### DESCRIPTION

The nVent RAYCHEM ACS-30 User Interface Terminal (UIT) is a panel mounted touchscreen display for control and monitoring of the ACS-30 system. The unit provides control for up to 260 heating circuits via the 22 cm XGA colour touchscreen display.

It comprises RS485, RS232, or 10/100 Base-T Ethernet communication ports to allow communication with external distributed heating panels or building management systems (BMS).

BACnet, Metasys N2 and LonWorks to Modbus protocol gateways with pre-programmed Modbus registration are also available. A USB interface is included for quick and easy configuration and for firmware system upgrades.

The ACS-30-EU-UIT2 unit is designed for indoor use in non-hazardous locations.

### TECHNICAL INFORMATION

#### Approvals

CE Marked. In accordance with EN 60439 'Low-voltage switchgear and controlgear assemblies'.

#### Colour

RAL7035 (light grey)

#### Enclosure Material

Metal

#### External Panel IP rating

IP54

#### Internal Panel IP rating

IP20

#### Installation location

Indoor, non-hazardous

#### Ambient operating temperature range (Powered)

0-35°C

#### Operating Voltage

100-240 VAC, -15% +10%, 50/60 Hz

#### LCD Display

21.7 cm (8.4") XGA, TFT transfective device with integral LCD backlight (Colour). 5-wire resistive touch screen interface for user entry.

#### Main CB

4A, C-type

#### Auxiliary CB

1.6A, C-type

#### Alarm relays

3 relays, 8A @ 250 VAC, 2-PDT. The alarm relays are energised without an alarm condition. They will change state with an alarm condition or loss of power. May be used for common alarm light.

#### 'Fault' Signal Lamp

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### PANEL DIMENSIONS

#### Dimensions

380 mm x 380 mm x 210 mm.

## NETWORK CONNECTIVITY

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|   |   |
|---|---|
| Local/Remote Port<br>(RS-232, RS-485-2) | RS-232/RS-485 ports (RS-485, 2 wire isolated). May be used to communicate with host computers, BMS.<br>Local RS232 non isolated, 9 pin D sub male.<br>Maximum connection cable length : RS-485 not to exceed 1200 m.<br>Cable to be shielded twisted pair.<br>Data Rate: 9600 to 57600 baud |
| Field Port (RS-485-1)                   | RS-485, 2 wire isolated. Used to communicate with external devices such as ACS-30-EU-MONI-RMM2-E and ACS-30-EU-PCM2-xx-yy.<br>Data Rate : to 9600 baud  |
| LAN                                     | 10/100 BASE-T Ethernet port with link and activity status LEDs.   |
| USB Ports                               | USB 2.0 Host port type A receptacle (x2)  |

## INSTALLATION AND SAFETY REMARKS

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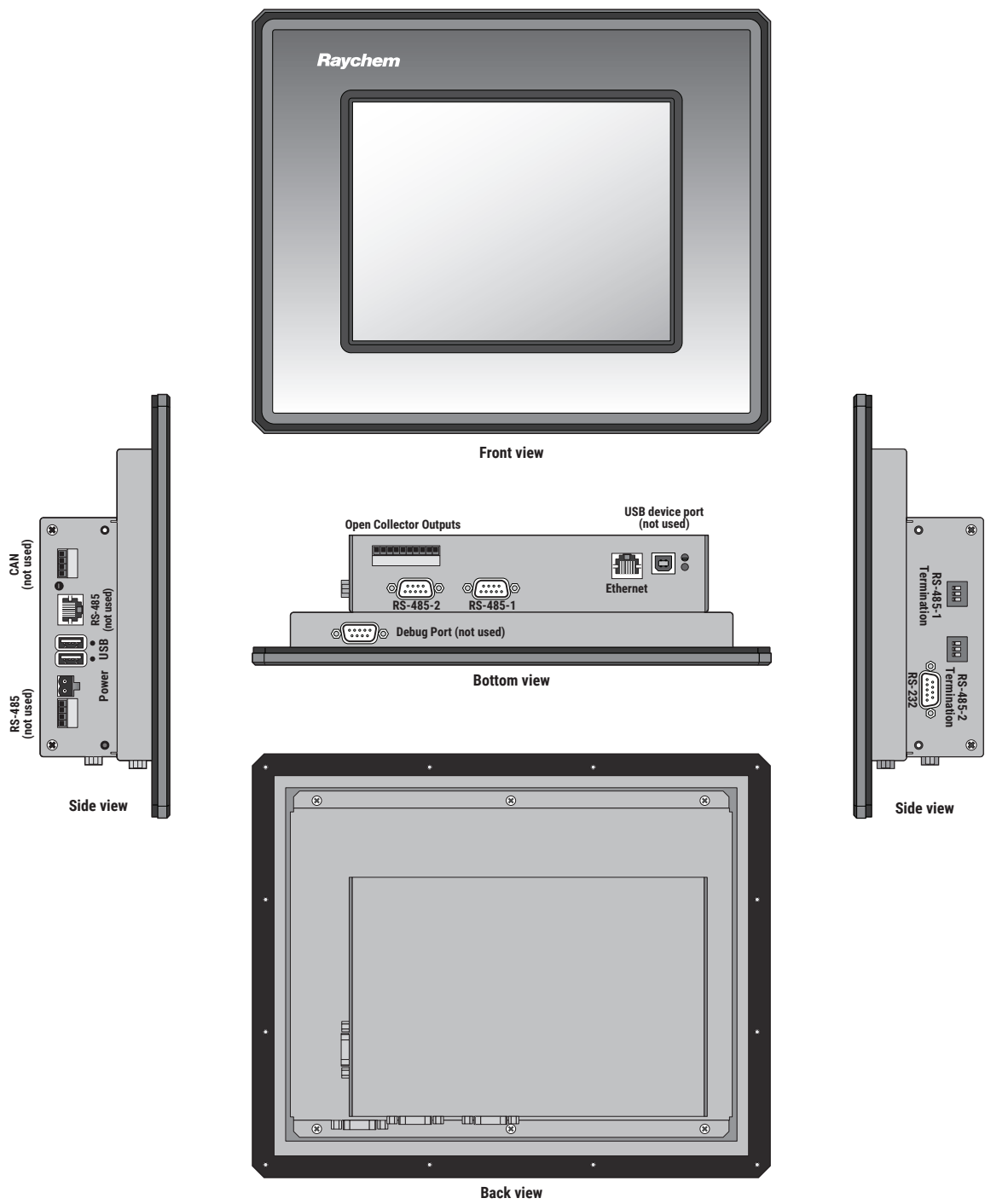
Select a suitable location for the enclosure and mount it on a wall using suitable screws.

Install all cables ensuring adequate protection against all the extension leads disconnecting. This can be achieved installing suitable glands on the lower side of the enclosure.

**Remarks:** Only for electricians!

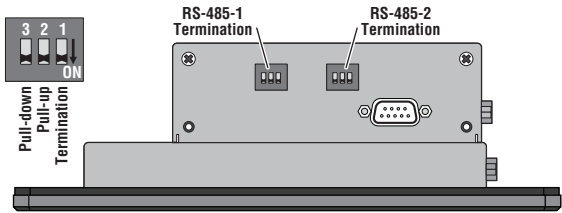
**Attention:** mistakes during connecting up the device can cause damage to the control unit. The company is not liable for any damage caused by faulty connections and/or incorrect handling.

- Before working on the device, switch off the power supply!
- The device may only be connected up and serviced by authorized, trained personnel!
- Electrical connection has to be carried out accordingly to the schematics provided with product.
- Local standards for electrical connection must be observed.
- If the device does not work please first check all connections and the mains power supply.



RS-485 CONFIGURATION SWITCHES

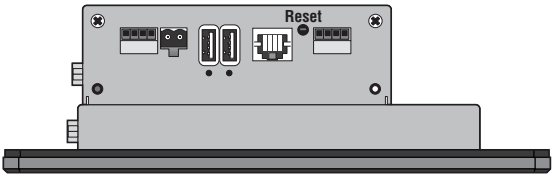
The configuration switches are found on the right side of the ACS-30-EU-UIT2. Refer to the table below for settings.



| Position    |  |   |  |
|-------------|--|---|--|
| Switch      | On   | Off   | Comments   |
| Pull-down   | (As-shipped default) RS-485 network “-” signal is forced to a determinate state when idle. | RS-485 network “-” signal is not forced to a determinate state when idle. | One device (typically this ACS-30-EU-UIT2) on the RS-485 network should force the network “-” signal to a determinate state.   |
| Pull-up     | (As-shipped default) RS-485 network “+” signal is forced to a determinate state when idle. | RS-485 network “+” signal is not forced to a determinate state when idle. | One device (typically this ACS-30-EU-UIT2) on the RS-485 network should force the network “+” signal to a determinate state.   |
| Termination | (As-shipped default) RS-485 network is terminated with 120-ohm resistor.                   | RS-485 network is not terminated.   | Terminate the device (ACS-30-EU-UIT2 or other) that is at each end of the RS-485 network, for a total of two terminated devices. No other devices on the network should be terminated. |

RESET SWITCH

The Reset switch can be found on the side of the ACS-30-EU-UIT2. A pointed object is required to press the reset switch and restart the ACS-30 software.



CLEANING

The touch screen area of the ACS-30-EU-UIT2 may be cleaned with a damp or dry cloth. Typical window cleaning agents may be applied to aid in the removal of dirt, dust and grease. Do not use abrasive cleaners.

## PART NUMBERING AND ORDERING DESCRIPTION

| PCN         | Product Name   | Description  | EAN Code      |
|-------------|----------------|--|---------------|
| 1244-012864 | ACS-30-EU-UIT2 | User Interface module for the ACS-30 Control and Monitoring System | 5414506014303 |

## RELATED PRODUCTS

| PCN         | Product Name            | Description   | EAN Code      |
|-------------|-------------------------|---|---------------|
| 1244-012865 | ACS-30-EU-EMDR-10-MOD   | Gutter & Roof snow melting sensor module for the ACS-30 Control and Monitoring System             | 5414506014310 |
| 1244-012866 | ACS-30-EU-VIA-DU-20-MOD | Snow melting and surface de-icing sensor module for the ACS-30 Control and Monitoring System      | 5414506014327 |
| 1244-012867 | ACS-30-EU-Moni-RMM2-E   | Remote monitoring module for the ACS-30 Control and Monitoring System                             | 5414506014334 |
| 1244-012868 | ACS-30-EU-PCM2-5-20A    | Power Control Module for ACS-30 (5 circuit module with 20 Amp electrical protection per circuit)  | 5414506014341 |
| 1244-012869 | ACS-30-EU-PCM2-10-20A   | Power Control Module for ACS-30 (10 circuit module with 20 Amp electrical protection per circuit) | 5414506014358 |
| 1244-012870 | ACS-30-EU-PCM2-15-20A   | Power Control Module for ACS-30 (15 circuit module with 20 Amp electrical protection per circuit) | 5414506014365 |
| 1244-012871 | ACS-30-EU-PCM2-5-32A    | Power Control Module for ACS-30 (5 circuit module with 32 Amp electrical protection per circuit)  | 5414506014372 |
| 1244-012872 | ACS-30-EU-PCM2-10-32A   | Power Control Module for ACS-30 (10 circuit module with 32 Amp electrical protection per circuit) | 5414506014389 |
| 1244-012873 | ACS-30-EU-PCM2-15-32A   | Power Control Module for ACS-30 (15 circuit module with 32 Amp electrical protection per circuit) | 5414506014396 |

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