

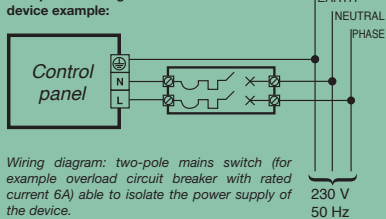
Technical manual for two-way radio expansion devices on bus Art. RF10VEDO / RF32VEDO

**Comelit®**  
Passion. Technology. Design.

#### WARNING

- Install the equipment by carefully following the instructions given by the manufacturer and in compliance with the standards in force.
- All the equipment must only be used for the purpose it was designed for. **Comelit Group S.p.A.** declines any responsibility for improper use of the apparatus, for any alterations made by others for any reason or for the use of non-original accessories or materials.
- Installation, mounting and assistance procedures for electrical devices must only be performed by specialised electricians.
- For standard-compliant installation, a suitable (two-pole) device must be provided for isolating and protecting the mains power supply in the building's electrical system (see Figure), in compliance with current standards (law 46/90): for example, a two-pole overload circuit breaker with rated current 6A.

#### Two-pole isolating device example:



#### Maintenance

- Cut off the power supply before carrying out any maintenance work.
- It is recommended to check the correct operation of the safety system periodically (at least once a month).
- Remove any dust accumulated in the control panel housing with a damp cloth, without using any solvent, and check that there are no foreign bodies.

- Check the condition of the connectors and the conductors.
- Perform the maintenance and operation tests of all components (smoke sensors, movement sensors, ...) as indicated in the relevant technical manuals.
- Replace the protections on the terminals.

#### Certifications

- All the products comply with the requirements of Directive 2006/95/EC (which replaces Directive 73/23/EEC and subsequent amendments), as certified by the CE mark they carry.
- Art. **VEDORF** complies with standards **EN50131-1, EN50131-3, EN50131-5-3**
- All the system components must have safety grade 2 or higher to obtain grade 2 alarm system certification according to standard **EN50131**.

#### Product labels

- All items have a product ID label. An example is provided below:



interpretation serial number: **000PWWYYXXXXXXXXX**

protocol number

date of manufacture  
week of manufacture (WW)  
and year of manufacture (YY)  
(in the sample label  
1515= week 15 of the year 15)

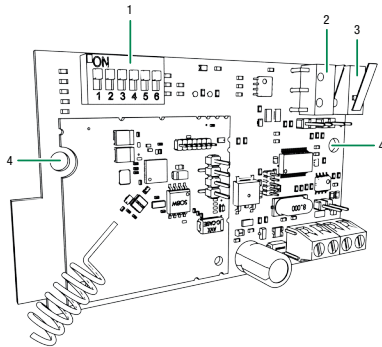
The modules operate in two-way mode (reception and transmission). This makes it possible to pair radio controls, radio alarm sensors (contacts and/or volumetric detectors) and supervised wireless sirens with the control panel.



**Art. RF10VEDO / RF32VEDO complies with standards EN50131-1, EN50131-3, EN50131-5-3**

## MAIN FEATURES

- Up to 10 radio zones (RF10VEDO) or 32 radio zones (RF32VEDO)
- Up to 8 radio outputs (RF10VEDO) or 16 radio outputs (RF32VEDO)
- Up to 16 radio controls (RF10VEDO) or 32 radio controls (RF32VEDO)
- Possibility of bidirectional communication
- Operating frequency in 868 MHz band, FSK mode
- Sensor and siren status monitoring
- Separate management of intruder and sabotage alarms
- Radio device power supply monitoring, including sirens
- Monitoring



1. Dip Switch
2. Anti-tear tamper
3. Anti-tamper tamper
4. Holes for fixing the VEDORF card to metal housing  
Art. BOXMETAL

## TECHNICAL SPECIFICATIONS

Features	Value
<b>Name of manufacturer / supplier</b>	Comelit Group S.p.A.
<b>Dimensions (b x h x d)</b>	126 x 80 x 32 mm (in the housing)
<b>Weight</b>	137 g with housing and screws for fixing to the wall 35 g card alone
<b>Consumption (min./max.)</b>	55 mA medium, 60 mA max
<b>Operating voltage</b>	10 - 15 V $\overline{\text{---}}$
<b>Operating temperature and Operating humidity</b>	-10° / + 55° with warm dry air -10° / + 40°C with max + 93% RH (not condensed)
<b>Certifiable safety grade</b>	2 according to EN50131-1*
<b>Device Type</b>	TYPE B according to standard EN50131-3
<b>Environmental class</b>	II according to EN50131-1

\* When observing any configuration and installation instructions provided

## CONFIGURATION JUMPERS

Name	Function
<b>JP1</b>	If activated, enables 485 bus terminal resistor
<b>JP3</b>	Reserved
<b>JP6</b>	If activated, disables anti-removal (anti-tear) tamper
<b>JP7</b>	If activated, disables anti-opening tamper

## ADDRESSING

DIP switches 1 to 4 are for addressing the module on the bus. On the current version, only addresses 1, 2 and 3 are used, so DIP switches 3 and 4 must be left set to OFF.

No.	DIP1	DIP2	DIP3	DIP4
<b>1</b>	OFF	OFF	OFF	OFF
<b>2</b>	ON	OFF	OFF	OFF
<b>3</b>	OFF	ON	OFF	OFF

## SETTING THE SPEED OF THE CARD ON THE BUS

BAUD	DIP5	DIP6
<b>9600</b>	OFF	OFF
<b>38400</b>	ON	OFF
<b>57600</b>	OFF	ON
<b>115200</b>	ON	ON

Note that the standard speed of the bus for VEDO control panels is 38400 baud.

## TERMINAL BLOCK DESCRIPTION

Name	Function
<b>V+</b>	Power supply positive input
<b>V-</b>	Power supply negative input
<b>A</b>	RS485 data bus - A
<b>B</b>	RS485 data bus - B

## LED MEANINGS

Name	Flashing	Meaning
<b>D4</b>	<b>fast</b> (50 ms ON / 50 ms OFF)	expansion connected
	<b>slow</b> (200 ms ON / 200 ms OFF)	expansion not connected

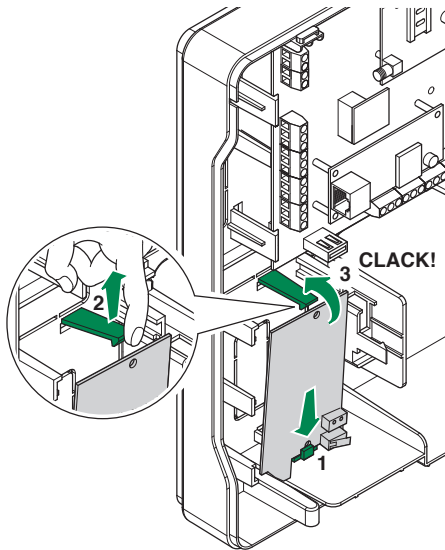


Expansion device Art. RF10VEDO / RF32VEDO cannot be mounted inside metal housing Art. BOXMETAL.

### MOUNTING EXPANSION UNIT ART. VEDORF IN A HOUSING ART. BOXPLASTIC



For information regarding Art. BOXPLASTIC, please refer to the technical manual for the Vedo system.



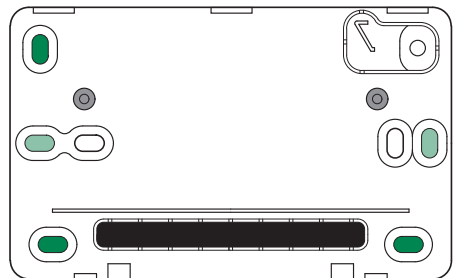
### MOUNTING EXPANSION UNIT ART. RF10VEDO / RF32VEDO IN PLASTIC HOUSING FOR EXPANSION DEVICES

The expansion devices on bus Art. RF10VEDO / RF32VEDO are supplied complete with plastic housing which complies with EN50131; they can therefore also be installed outside BOXPLASTIC and BOXMETAL products.

The housing can be fixed to the wall or mounted in flush-mounted boxes on the wall. A pre-marked section on the bottom is for routing the cables through, and another pre-marked section in the top right-hand corner, coinciding with a fixing hole, provides anti-tear protection.

The expansion module is fixed to the base of the housing with 2 self-tapping screws.

The cover is secured to the base by means of three fasteners on the top and two spring clips at the bottom. There are also two safety screws to prevent accidental opening.



- Wall mounting holes
- Optional fixing holes
- Pre-marked optional fixing holes
- Cable inlet hole
- Anti-tear tamper hole
- Card fixing holes

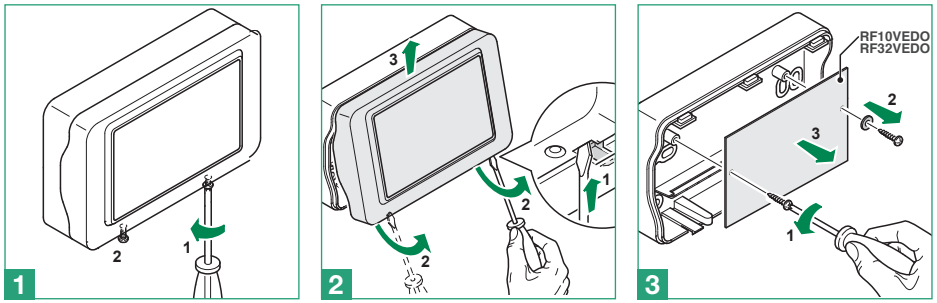


To ensure anti-tear protection, the hole associated with the pre-marked area with anti-tear function must always be anchored to the wall. Failure to anchor this section will make the anti-tear protection useless.

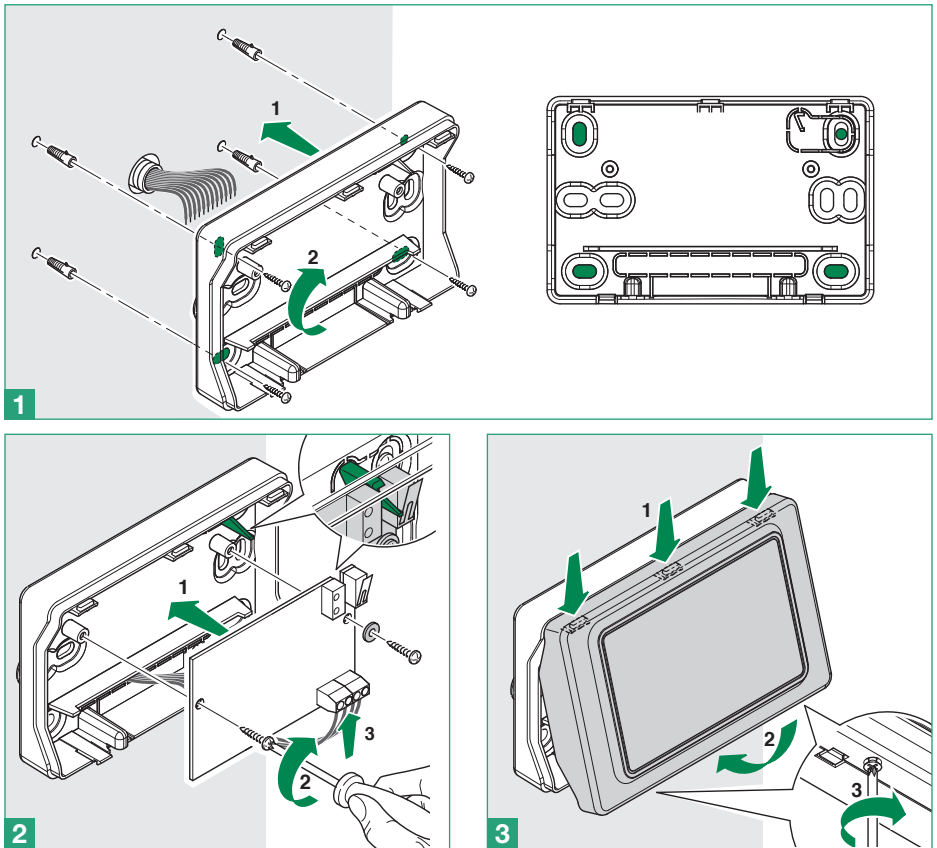
**IMPORTANT:** when refitting the expansion card in its housing, make sure that the anti-tear tamper (the one furthest to the left as shown in the illustrations on page 4) is held properly closed by the tab originating from the pre-marked anti-tear area of the housing.

In order to guarantee compliance with Standards EN50131-1 and EN50131-3, the expansion devices RF10VEDO / RF32VEDO, if installed outside the control panel housing, must have their anti-sabotage and anti-tear contacts enabled, and so the jumpers on the expansion must be disconnected.

**PREPARING THE PLASTIC HOUSING FOR MOUNTING OF EXPANSION DEVICE ART.RF10VEDO / RF32VEDO**



**FIXING THE PLASTIC HOUSING TO THE WALL FOR MOUNTING OF EXPANSION DEVICE ART.RF10VEDO / RF32VEDO**



www.comelitgroup.com  
Via Don Arrigoni, 5 - 24020 Rovetta (BG) - Italy

8 023903 410044 1st edition 07/2020  
code 2G40002562