

ESP-R-868 Radio expansion 868 on bus RS485

ESP-R-868 is a radio expansion on RS485 bus for the CE-LAN control panel. It allows to extend the radio range of the control panel, positioning the expansion closer to the radio sensors that do not directly reach the control panel.

IMPORTANT:

The maximum radio coverage is obtained by positioning the expansion as in the figure (logo at the top - terminal block at the bottom).

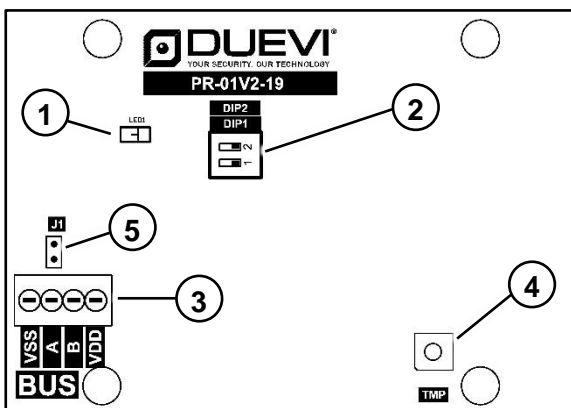
Each ESP-R-868 expansion can manage a maximum of 16 sensors.

The CE-LAN control unit can manage a maximum of 4 ESP-R-868 expansions, two for each RS485 bus.

NOTICE:

For correct device operation, update the control panel firmware to version 2.12.5 or higher.

1. Identification of the parts



- 1 – Signalling led
- 2 – DIP Switch
- 3 – Terminal block
- 4 – Tamper
- 5 – Bus termination Jumper

2. Connections

| | |
|-----|-----------------------|
| VDD | Positive power supply |
| B | Pole "B" RS485 signal |
| A | Pole "A" RS485 signal |
| VSS | Negative power supply |

See control panel manual for connection details.

3. Manual settings

DIP-SWITCH

| | | ON | OFF |
|-------|-------------------|----|-------|
| DIP 1 | MANDATORY IN OFF | | →OFF← |
| DIP 2 | Expansion address | 2 | 1 |

JUMPER

| | | aperto | chiuso |
|----|-------------------------|--------|--------|
| J1 | 120 Ohm bus termination | OFF | ON |

4. Installation

Proceed as follows:

1. With the control panel not powered, connect the four wires of the RS485 bus to the expansion terminal block (see the control panel manual)
2. Set the address with DIP SWITCH 2
3. Power ON the control panel
4. Proceed with programming

5. Programming

Proceed as follows:

1. Log in as INSTALLER on the control panel
2. Enter SETUP> DEVICES
3. Press the SEARCH BUS DEVICES command
4. The expansion is found and added to the DEVICES
5. Perform WRITE SETTINGS at least once
6. Proceed to device software settings

6. Software settings

On the control panel enter SETUP> DEVICES and select the expansion to be set.

From here you can access the following features:

LEARN RADIO DEVICES

This function allows you to learn a sensor on the expansion (exactly with the same procedure that is used on the control panel).

ADD DEVICE BY SERIAL

This function allows you to add by serial a sensor on the expansion (exactly with the same procedure that is used on the control panel).

FIRMWARE UPDATE

This function allows you to perform via bus the firmware update of the expansion.

PLEASE NOTE:

1. It is not allowed to add on the expansion a sensor already learned to the control panel.
2. A sensor added to the expansion is displayed exactly like those present in the control panel.

7. Led signals

- 1 flash every 2 seconds → Bus communication OK
- 3 flashes every 2 seconds → Bus communication NOT OK
- 1 flash every second → Panel in SETUP mode
- fast blinking continuously → Firmware update

8. Technical data

| | |
|--------------|---|
| Power supply | 10 ÷ 14 V $\overline{\text{---}}$ (typical 12 V $\overline{\text{---}}$) |
| Consumption | 8 mA |
| Temperature | 0 ÷ 40 °C |