

GAS DETECTION CENTRAL UNIT

CE100R + CE 101



The gas detection central unit **CE100R**, is a DIN rail realization, is composed by a central unit for the electronic data elaboration, a display 122 x 32 points back lighted with key board and connectors for the power supply from 20 to 30Vcc, for the input of the detectors' information, for the alarm output and for optional equipments.

The central unit **CE100R** works with a power supply of 20 to 30Vcc

The central unit, in the basic configuration, can manage two detectors with 4-20mA transmission (with two extensions **CE 101**, in its maximum configuration, can manage 6 detectors) directly connected. The unit is provided with three relays that can be used either with normally closed contacts with a **positive logic**, or normally open with **negative logic**, to be used in connection with the output in relation with the **three levels of alarm** and a relays controlled by the **fault function**.

As option and extension the central unit **CE100R** can be provided with :

- One or two extension modules **CE101** DIN rail, each one managing two detectors up to four additional input for 4-20mA detectors
- One module **AL 100** DIN rail: a power transformer that can enable the connection to 230V 50Hz power supply.
- One module **AL 101** DIN rail: a recharger for an external auxiliary lead battery 12Vcc 3Ah to be used in case of main power supply shortage

Or as an alternative :

- One module **AL 102** DIN rail: a recharger for an external auxiliary lithium 10.8Vcc battery, 1,7Ah **BA 100**
- One module **BA 100** en DIN rail: an auxiliary lithium 10.8Vcc battery, 1,7Ah with 30 to 40 minutes standing. This device is a complete one, easily DIN rail mounted with reduced space and costs.

- The gas detection central unit **CE100R** can manage all information coming from:
 - 3 wires 4÷20mA catalytic gas detectors for explosive gases TS292K (IP65) or TS293K (explosion proof ATEX) series with range 0÷20% LEL or series TS293Px (Explosion proof ATEX) range 0÷100% LEL.
 - 3 wires 4÷20mA catalytic gas detectors (max distance up to 100m) for explosive gases SE192K (IP65) range 0÷20% LEL or SE193K (explosion proof ATEX) series with range 0÷20% LEL.
 - 2 wires electro chemical gas detectors for toxic gases series TS220E (IP65) or electro chemical gas detectors for oxygen TS220EO with range 0÷25% O₂.

The input are programmed for any type of detectors with signal 4÷20 mA and 20Vcc power supply

- Every detector has three alarm levels connectable to all outputs
 - **delay ON** up to 250 seconds after reaching the upper programmed alarm level.
 - **delay OFF** up to 250 seconds after returning below the programmed alarm level.
 - **temporised** during installation from 0 to 250 seconds,
 - **memory**
 - in **positive logic** (normally activated relays)
 - in **negative logic** (normally de-activated relays)

- The internal **Buzzer** can be put in service or out of service.
- The internal **Buzzer** gives a "Bip" at any key touch.
- Each detector can be excluded without physical disconnection or cancelled from the program.
- Possibility (advised) to protect the programs with a **password** with four number/letters

MAIN CHARACTERISTICS

CE100R : DIN rail Central unit, power supply :20 à 30Vcc can sit 2 detectors 4-20 mA and can Manage up to 6 detectors 4-20 mA with 2 extensions (maxi) CE101.
It is provided with 4 programmable relays, 3 levels, positive or negative logic.
Self-guided easy program.
Back lighted display with common visualisation of all key
Display of connected valve situation.

AL100 : 230Vca-24Vcc power supply module for C100R central unit
Power:

AL101 : Charger for external PB battery 230Vca-12Vcc (not included)12V-3Ah

AL102 : Charger for external lithium battery BA100 10,8V-7Ah

BA100 : Lithium Battery 10,8V-7Ah