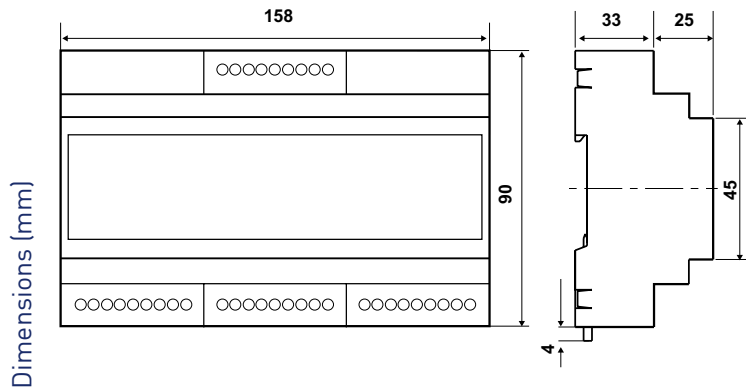


P70

Electronic control unit for gas leak detection with 4 detection zones

Electronic control unit for gas leak detection in industrial environment, suitable for controlling and signaling dangerous gas concentration in the air, specifically for detecting natural gas, methane gas, city gas and LPG (cylinder gas) excesses, etc.



	Power supply	Contacts rating V	Connected sensors	Operating ambient temperature °C	Protection degree
P70	12 Vac or 12/14 Vdc	5A - 250V	4	- 10 ÷ 50	IP40

ELECTRICAL CHARACTERISTICS

Power supply: 12V - 50Hz or 12/14V dc.
 Consumption: 10 VA max.
 Output through 2 electromagnetic relays with voltage free contacts.
 Contacts rating: 5A - 250V~ (resistive load).

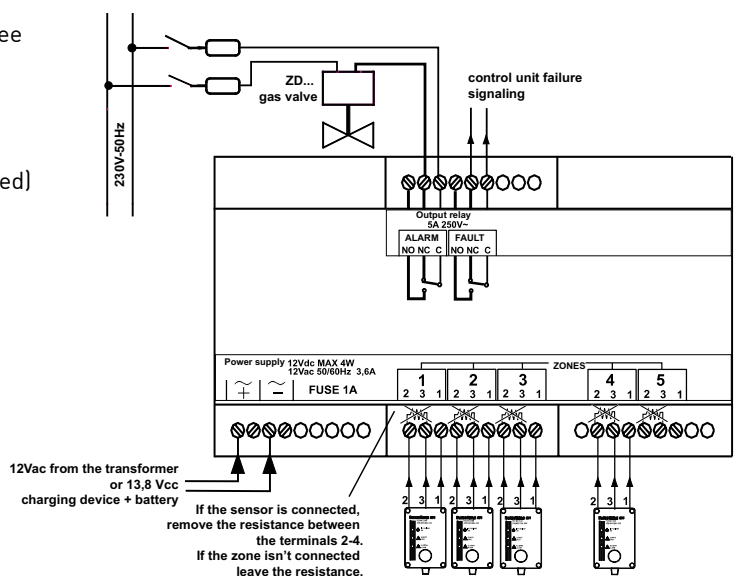
INTERNAL ALARMS

- Instantaneous: visual with area indication (Red Led) and acoustic indicator.

EXTERNAL ALARMS

- N° 1 relay for "ALARM" status;
- N° 1 relay for "FAILURE" status;
- one to operate the interception valves;
- one to control the acoustic signaling devices;
- to control other safety devices.

EXAMPLE OF ELECTRICAL CONNECTION



STANDARDS AND APPROVALS

In conformity with EN 60730-1 standards.

INSTALLATION

DIN rail mounting (9 modules).

Maximum permissible conductor length 50 meters for each sensor.

Conductor section of 1,5 mm².

OPERATION

When in the controlled area there is a gas concentration that exceeds the prescribed level, the device triggers a relay, which can be used to close the electromagnetic valve in order to stop the gas inflow.

Simultaneously two alarm signals occur, a visual and an acoustic alarm. In addition to the internal alarm system an external siren can also be controlled.

The prescribed intervention level is much more inferior to the danger concentration, in order to allow the necessary time to operate before the exhalation of a gas-air explosive or toxic mix becomes dangerous for a human being.

Four different type sensors can be connected to the same detector for controlling several areas or to control different gas types. In case of gas leaks a luminous led on the control unit will indicate the interested area.

INTERNAL ALARMS:

- for failure and threshold exceeding: visual with area indication (Red Led) and acoustic indicator.

EXTERNAL ALARMS:

Two relays with changeover voltage free contacts are available:

- threshold exceeding relay to control the interception valves;
- failure signaling relay to control an external acoustic signaling device or other safety devices.

TECHNICAL FEATURES

Casing made of insulating material, front in polycarbonate.

Operating temperature: -10 ÷ 50°C.

Unit weight 0,26 Kg.

ACCESSORIES



S71
Sensor for methane or light gases detection.

S72
Sensor for LPG (cylinder liquid gas) or heavy gases detection.



ZD...
Normally closed electromagnetic valves, with quick closing and opening, class A with approval.



S80
Emergency signaling device with fixed light and continuous sound.