

CM-80-ID Gas Detection Control Unit



GENERAL DESCRIPTION

CM-80-ID control units are a series of data acquisition and control modules, for digital signals ideal for medium and small gas detection systems.

Different gas detectors for different gases (including oxygen gas detectors for both deficiency and excess) can be connected to CM-80-ID control units. All parameters as: gas type, gas detectors full range, Warn & Alarm thresholds and relay outputs status and assignment are programmable by operator and protected by password. An event log is available on CM-80-ID showing the last events in order of appearance.

The serial line RS485 feature make this control panel a good and cheap solution for Addressable gas detection systems with possibility to connect a maximum of 48 gas detectors and a maximum of 6 I/O remote modules with diagnostic display (for a total of 36 relay outputs, 48 monitored inputs, 12 digital inputs, battery charger and integrated battery power supply).

CM-80-ID control units have internal stabilized 13.75 Vdc 2.5A Power Supply and output for a 12V, 7.2 A/h back-up battery. A built-in protective circuit controls the battery efficiency, isolating it in case of under or over voltage.

CM-80-ID can be supplied in "Open Frame" version or installed in a "Wall mounting metal cabinet" including transformer completely wired and programmed according to specific customers requests.

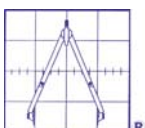
Applications:

- Multigas detection systems
- Addressable gas detection systems
- Industrial gas detection systems
- Commercial buildings
- Gas Storage plants and warehouses
- Waste water plants
- Car parkings monitoring
- Building automation
- Process monitor system
- Security system

Main Characteristic

- 2 Optocoupled Digital inputs
- Redundant RS485 Serial Line Modbus RTU Protocol (Two RS-485 drivers).
- Two Optical Cable Drivers for long distances connections (62.5/125 um 3.5 db/Km) are available as option.
- Backup battery circuit.
- Backlighted LCD display 2 lines x 20 characters for on site main information visualization.
- Front graphic panel with connection indications for easy handling by installer.

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GENERAL SPECIFICATIONS

Double Serial Line	RS-485 Modbus RTU Protocol
Baud rate:	1200÷115200 Kbps.
5 x Programmable Relays	Free Voltage contacts SPDT
1 x Fixed Relay	Dedicated to Siren activation
7 x Inputs	Monitored inputs
2 x Digital Inputs	Optocoupled
Fiber Optic Driver (Option)	62.5/125um (3,5dB/Km.)

MECHANICAL SPECIFICATIONS

Overall dimensions	185 x 130 x 70 mm (Openframe) 300 x 400 x 110 mm (Cabinet)
Mounting rails	Din 41612
Cabling	Screw terminals AWG 26...14
Material	Aluminium body
Protection Range	IP30 (Openframe) or IP40 (Cabinet)
Weight	0,4 Kg.(Openframe) 1,5 Kg. (Cabinet)

ENVIRONMENTAL SPECIFICATIONS

EMC	According to EN61000-4
Storage temperature	-40 to 85 °C
Operating temperature	-20 to 70 °C
Humidity range	90% R.H. n.c.

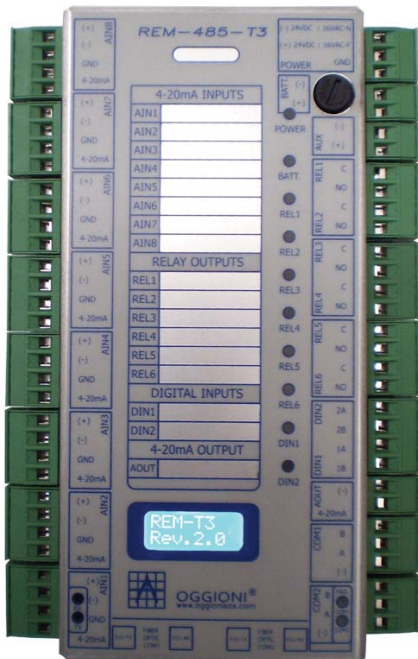
ELECTRICAL SPECIFICATIONS

Supply voltage	16Vac or 24 Vdc
Power Consumption	90mA at 16Vac - 350mA at 24Vdc
Stab. power supply output	13.75 2 A
Supply Fuse	3A
Aux. Power Supply Fuse	1A
Overvoltage protection	± 50V.
Output Contacts	Free Voltage contacts SPDT
Contact Rating	3A at 30Vdc / 5A at 110Vac

PART NUMBER DESCRIPTION

Configuration	Description
CM-80-ID	Openframe version
CM-80-ID-B	Wall Mounting metal cabinet version

REM-485-ID	I/O Remote Module
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GENERAL SPECIFICATIONS:

- Double Serial Line: RS-485 Modbus RTU Protocol
- Baud rate: 1200÷115200 Kbps.
- 5 x Programmable Relays outputs: Free Voltage contacts SPDT
- 1 x Fixed Relay output: Dedicated to Siren activation
- 8 x Inputs: Monitored inputs
- 2 x Digital Inputs: Optocoupled
- Fiber Optic Driver (Option): 62.5/125um (3,5dB/Km.)

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