

MODULES FOR TOXIC AND EXPLOSIVES GAS DETECTORS - (MDGAS-O)

Models CM-10 & CM 20

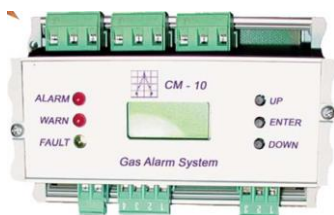
The CM-10 and CM-20 units have one and two input channels respectively; are programmable panels designed to work with gas detectors, which transmit with 4-20 mA signal.

Key Features

- Backlit LCD display
- Configurable alarm threshold
- Programmable 4-20 mA output (CM-10)
- Acoustic alarm signal (CM-20)
- Programming software
- Programming switches
- Fault output
- LED on the front display for alarm indications, pre-alarms or failures.

Applications

- Food industry and fermentation processes.
- Greenhouses and hatcheries.
- Process control.
- Automation systems for buildings and any situation where toxic and explosive gas leaks or leaks are possible.



Model CM-80

CM-80 control units are a series of data acquisition control modules for analog and digital signals, ideal for gas detection systems for protection of small and medium-sized installations. Different detectors for various types of gas (including oxygen) can be connected in this CM-80 control unit. The type of gas, the measuring unit, the full scale of the detector, the alarm thresholds and the configuration of the relay outputs can be programmed by the operator. All CM-80 series control units are extremely well insulated, without electrical noise and equipped with 8 analog inputs for connecting up to 8 gas detectors transmitting per 4-20mA signal. The CM-80 control units have an internal stabilizer for 13.75 Vdc 2.5A power supply and a 12V – 7.2 A/h output for backup batteries. An internal protection circuit controls battery efficiency by removing it in the event of voltage increase or loss. The CM-80 control unit can be supplied in the open frame version or installed in a metal wall mountbox, including transformer and full wiring. They can also be fully wired and scheduled according to specific customer requests.



Key Features

- 8 analog inputs for 4-20 mA transmitters.
- Backlit LCD display with 2 lines by 20 characters for viewing the main information.
- 2 opto-isolated digital inputs.
- Front view finder with graphic indications and LEDs.
- Backup battery circuit.

Applications

- Industrial multi-gas sensing systems.
- Water treatment facilities.
- Building automation.
- Commercial constructions.
- Gas monitoring in underground car parks.
- Process control.
- Storage facilities or gas tanks.
- Security systems...

Model CM-80-ID

These CM-80-ID units have the same characteristics shown previously in the CM-80 version but also have the possibility to connect the gas detector loop via an RS485 (serial) line, this presents this panel as an optimal and economical solution for addressable gas detection systems with the possibility to connect on the RS 485 (serial) line up to a maximum of 48 gas detectors and also up to a maximum of 6 remote I/O modules, has a diagnostic display of 2 lines x 8 characters (with a total of 36 relay outputs, 48 monitored inputs, 12 digital inputs, battery charger and its integrated power supply) and also have a log that memorizes the latest events in order of appearance.

Key Features

- 2 opto-isolated digital inputs.
- Battery backup circuit
- RS-485 Series Communication with ModBus RTU Protocol (2 RS485 lines)
- Backlit LCD display with 2 20-character lines for viewing and reading gas detectors and their event logs.
- Optional Module: 2 long distance fiber optic lines (62.5/125um 3.5 dB/km)
- Graphical control panel with indications of the position of the connectors for easy use by the installer.

Applications

- Addressable multi-gas detection systems.
- Water treatment facilities.
- Control Process.
- Gas detection systems in industrial and commercial environments.
- Gas monitoring in underground car parks.
- Security systems.
- Storage facilities or gas tanks.
- Building automation...

EXcetera series® - MODULAR CONTROLLER FOR FIRE & GAS DETECTION

EXcetera® contains a dual-controller multitasking microprocessor (available Light and Plus versions) designed to suit any monitoring task and meet all required safety standards. Thanks to the EXcetera® modular designs can be used and adapted economically for all types of applications. From monitoring systems in complex large-scale industrial applications to measurement and control tasks in small and medium-sized plants, it has an addressable tactile graphic display with back-lighting for text reading. Standard protocol digital bus technology, ModBus RTU ensures absolute reliability and enables independent communication configurations for remote monitoring with control systems such as BMS, PC.

- **Redundant data processing:** FAIL SAFE structure . / SIL 1 Certificate [non-redundant] and SIL 2 - 3. / Compliant with EN 61508 In compliance with the following standards required for gas detection systems: EN 50104, EN 50271, EN 61508, EN 61779-1, EN 61779-4, EN 61779-5, EN 50545-1.

Excetera_CFG: Software package for configuration and commissioning.

Excetera_HMI: High-level operator interface, graphical pages, alarm logging, information and historical trends in real time.

