

▶ MX256

Digital gas detection controller (up to 256 gas sensors)



Technical specifications

- **Type:** Multi-channel gas detection unit (256 sensors max.)
- **Capacity:** 8 lines of 32 digital sensors OLCT10N
- **Gases detected OLCT10N:** Explosive gases (methane, butane, propane, hydrogen), CO, CO₂, H₂S, NH₃, NO, NO₂ and O₂.
- **Power supply:**
 - 85 to 264 Vca
 - Current: 0.8 A (230 Vac) - 1,5 A (115 Vac)
- **Internal backup battery:** Optional, capacity 600 mA/h
- **Cable type:** 2 shielded twisted pairs RS485
- **Module power supply:** 12 to 30 Vdc delivered by the controller
- **Digital network of the modules:** RS485 Modbus, 1 to 32 selectable addresses by mini-switches
- **Isolation:** 1500 V between power supply and digital network
- **Display:**
 - Backlit LCD display
 - 44 lines of 32 characters
 - 3 LEDs for operating status (OK, fault, alarms)
- **Keyboard:** Intuitive 7 keys
- **Local Buzzer:** Alarm and fault sound signal
- **Alarms:**
 - 6 alarms per sensor
 - Programmable thresholds on instantaneous or averaged values (with manual or automatic reset)
- **Relay output:** 3 internal local relays (possibility of adding 4 or 8 relay cards)
- **Digital outputs:** RS485 Modbus protocol (connection with a central monitoring equipment)
- **Dimensions:** 320 x 180 x 95 mm
- **Ingress rating:** IP54
- **Cable inputs/outputs:** 5 M20 cable glands for local power supply and local relays / 9 cable glands or PG 9

Product description

The **MX 256** is a digital gas detection controller that can manage up to 256 type OLCT10N gas sensors. It has been conceived to meet the needs of tertiary applications requiring high capacity, flexibility, and ease of use. Its structure of 8 lines of 32 gas sensors allows substantial reductions in wiring costs.

This excellent value-for-money unit offers many advantages, such as exceptional modularity, a 4-line backlit LCD screen, six programmable alarm levels per sensor, and 3 LEDs to visualize quickly the installation and alarms status.



Designed to be used with a digital link (proprietary protocol) with the **MX256** controller, **OLCT10N** detectors are particularly suitable for tertiary applications such as universities, laboratories, wineries, breweries, etc.

The gases detected by the OLCT10N are explosive (methane, butane, propane, hydrogen), ammonia (NH₃), carbon dioxide (CO₂), carbon monoxide (CO), hydrogen sulfide (H₂S), nitric oxide (NO), nitrogen dioxide (NO₂), and oxygen (O₂).



Depending on the needs and applications, additional input/output modules can be connected to the controller:

- **4 or 8 relay cards** for the control systems (sound and/or light signals, telephone transmitter, gas detection, ventilation, etc.).
- **Logic input board** that can receive all information or nothing, emergency stop, limit switch, fire or intrusion alarm, etc.).
- **Analog output board** (sensor signal copy, min, or average calculation of a group of detectors) for connection to a recorder, a PLC, a BMS, etc.

The simple and user-friendly COM256 software completes the simplicity of the controller implementation.

As an option, the MX256 controller can be equipped with a backup battery (approximately 1 hour for 50 toxic gas sensors) and an RS485 MODBUS protocol interface for communication with a supervision system.