

▶ OLCT10N

Digital detector for explosive, toxic or asphyxiating gases



Technical specifications

Detection principle:

- Explosive combustible gases: catalytic sensors resistant to poisons 0-100% LEL (methane, butane, propane LPG, CNG or H₂)
- Toxic gases: electrochemical sensor
- CO₂: infrared sensor

Signal output: proprietary Modbus RS485 digital signal

Power supply: 15 - 30 Vdc (24 Vdc nominal)

Cable type: 2 shielded twisted pairs, one for supplying the detectors, the other for RS485 communication between modules.

Consumption:

- Electrochemical sensor: 2.5 mA / 24 Vdc
- Catalytic sensor: 50 mA / 24 Vdc
- CO₂ infrared sensor: 20 mA / 24 Vdc

Connections: 1 M16 cable gland, cable 4 to 8 mm

Dimensions (WxHxD): 118 x 126 x 58 mm

Material: ABS

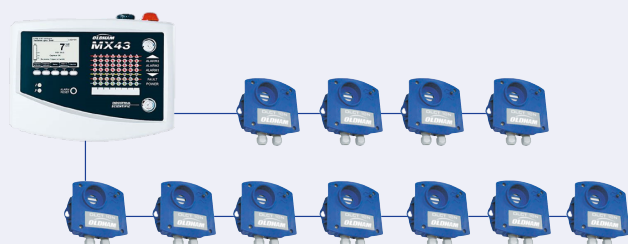
Protection: IP65

Operating temperature: -10 to + 45 °C

Humidity: 0% RH to 95% RH

Certifications:

Electromagnetic compatibility according to EN 50270



Product description

Specially designed for the detection of the most commonly encountered gases in the tertiary sector (small boiler rooms, universities, laboratories, parking garages) or light industry, the **OLCT10N** digital detector is a very economical solution (serial mounting) for the detection of explosive, combustible, toxic or asphyxiating gases.

Designed to be used in digital connection (proprietary protocol) with the Oldham **MX32N** (up to 8 detectors) and **MX43** (up to 32 detectors) gas detection controllers, the **OLCT10N** is a reliable and relevant alternative for many applications. The sensors are connected in series, that is to say that the connection cable (Modbus RS485) leaves from the central unit to go to the first detector, then to the second and so on, which induces substantial savings in wiring costs.

The detector is automatically calibrated with a magnet, preventing the housing from being opened. The calibration information, including the gas response curve, is memorized by the **MX32** or **MX43** control panels.

Gas	Mesure range	Code
Butane	0-100% LEL C ₄ H ₁₀	OLCT10N-004
Hydrogen	0-100% LEL H ₂	OLCT10N-003
Methane	0-100% LEL CH ₄ (5% vol.)	OLCT10N-001
Methane	0-100% LEL CH ₄ (4,4% vol.)	OLCT10N-002
Propane	0-100% LEL C ₃ H ₈	OLCT10N-005
Ammonia	0-100 ppm NH ₃	OLCT10N-231
Ammonia	0-1000 ppm NH ₃	OLCT10N-232
Carbon dioxide	0-5000 ppm CO ₂	OLCT10N-252
Carbon dioxide	0-5% vol CO ₂	OLCT10N-239
Carbon dioxide	0-100% vol CO ₂	OLCT10N-241
Carbon monoxide	0-300 ppm CO	OLCT10N-204
Carbon monoxide	0-1000 ppm CO	OLCT10N-205
Hydrogen sulfide	0-30 ppm H ₂ S	OLCT10N-213
Hydrogen sulfide	0-100 ppm H ₂ S	OLCT10N-214
Nitric dioxide	0-10 ppm NO ₂	OLCT10N-219
Nitric dioxide	0-30 ppm NO ₂	OLCT10N-220
Nitric monoxide	0-100 ppm NO	OLCT10N-216
Nitric monoxide	0-300 ppm NO	OLCT10N-217
Oxygen	0-30% vol O ₂ (cell 2 ans)	OLCT10N-200
Oxygen	0-30% vol O ₂ (cell 5 ans)	OLCT10N-272