**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.

**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

**Gas** | **Measure range** | **Code**
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Butane | 0-100% LEL C4H10 | OLCT10N-004
Hydrogen | 0-100% LEL H2 | OLCT10N-003
Methane | 0-100% LEL CH4 (5% vol.) | OLCT10N-001
Methane | 0-100% LEL CH4 (4.4% vol.) | OLCT10N-002
Propane | 0-100% LEL C3H8 | OLCT10N-005
Ammonia | 0-100 ppm NH3 | OLCT10N-231
Carbon dioxide | 0-5000 ppm CO2 | OLCT10N-252
Carbon dioxide | 0-5% vol CO2 | OLCT10N-239
Carbon dioxide | 0-100% vol CO2 | OLCT10N-241
Carbon monoxide | 0-300 ppm CO | OLCT10N-204
Carbon monoxide | 0-1000 ppm CO | OLCT10N-205
Hydrogen sulfide | 0-30 ppm H2S | OLCT10N-213
Hydrogen sulfide | 0-100 ppm H2S | OLCT10N-214
Nitric dioxide | 0-10 ppm NO2 | OLCT10N-219
Nitric dioxide | 0-30 ppm NO2 | OLCT10N-220
Nitric monoxide | 0-100 ppm NO | OLCT10N-216
Nitric monoxide | 0-300 ppm NO | OLCT10N-217
Oxygen | 0-30% vol O2 (cell 2 ans) | OLCT10N-200
Oxygen | 0-30% vol O2 (cell 5 ans) | OLCT10N-272