



## 3M™ Oldham™ OLCT 10N

Fixed Gas Detection



### Presentation

The OLCT 10N is a digital gas detector designed for detection of the most common gases in commercial and light industrial applications. Intended for use in combination with the MX 43 or MX 32, the OLCT 10N provides a fast and accurate response. Up to 32 detectors can be connected on the same digital line or distributed on 8 lines. All transmitter information is received by the controller in less than 1 second.

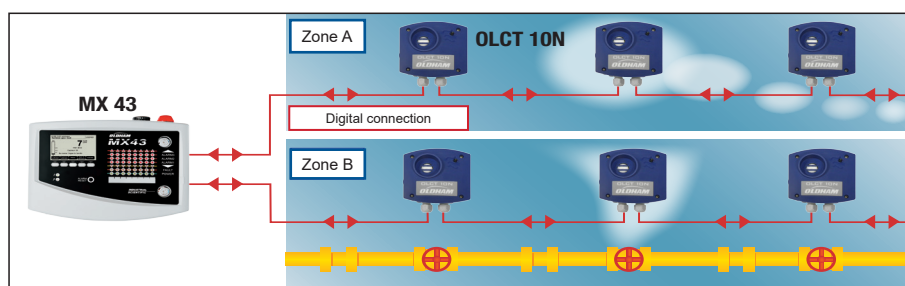
Non-intrusive operator interface requires only a simple magnetic wand and allows one man calibration without opening the enclosure, and calibration information, such as span reserve, is stored in the MX 43 and MX 32.

The OLCT 10N is IP65 and ATEX 3 GD certified, for use in ATEX 2 and 22 zones, and is water- and dustproof.

### Features

- Detection of combustible gases, toxic gases or oxygen
- Digital technology
- Non-intrusive calibration
- Cost savings on wiring installation

### Configuration example



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### Technical Specifications

#### Détecteur numérique OLCT 10N

Range	CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>8</sub> , H <sub>2</sub> O <sub>2</sub> (> 2 years) O <sub>2</sub> (5 years) CO H <sub>2</sub> S NO NO <sub>2</sub> NH <sub>3</sub> CO <sub>2</sub>	0-100 % LIE (-20°C à + 55°C) 0-30 % vol (-20°C à + 50°C) 0-30 % vol (-40°C à + 50°C) 0-300 ppm / 0-1000 ppm (-20°C à + 50°C) 0-30 ppm / 0-100 ppm (-20°C à + 50°C) 0-100 ppm / 0-300 ppm (-20°C à + 50°C) 0-10 ppm / 0-30 ppm (-20°C à + 50°C) 0-100 ppm / 0-1000 ppm (-20°C à + 40°C) 0-5000ppm / 0-5% vol / 0-100% vol (-40 à + 50°C)
Output	RS485 Modbus, proprietary protocol	
Power supply	12-30 Vcc	
Consumption	Electrochemical sensor: Catalytic sensor : CO <sub>2</sub> Infrared sensor:	2.5 mA in normal operation @ 24 Vdc 50 mA in normal operation @ 24 Vdc 20mA in normal operation @24Vdc
Calibration	Non-intrusive	
Cable inlet	2 PE M16, diamètre 4 à 8 mm	
Cable inlet	With MX 32 (24 Vdc version): Up to 8 toxic or oxygen gas detectors at 1000 m with a 0.9 mm <sup>2</sup> (AWG 18) core size cable Up to 8 explosive gas detectors at 225 m with a 0.9 mm <sup>2</sup> (AWG 18) core size cable With MX 43: 2 x M16 cable entries, outer diameter 4 to 8 mm Up to 32 detectors at 1000 m with a 0.9 mm <sup>2</sup> (AWG 18) core size cable	
Dimensions (LxHxW)	118x110x60 mm	
Materials	ABS, UV and shocks resistant	
Ingress protection	IP65	
Approvals	II 3 GD - IECEx 11.0029X Ex nA nC IIC T4 Gc for explosimetric versions / Ex nA IIC T4 Gc for others (except CO2 versions) Ex tc. IIIC T135°C Dc -20°C<Ta<+55°C Electromagnetic compatibility according to EN50270	

### Ordering information

Part Number	Description
OLCT10N-001	Digital transmitter OLCT 10N, range 0-100% LEL CH <sub>4</sub>
OLCT10N-003	Digital transmitter OLCT 10N, range 0-100% LEL H <sub>2</sub>
OLCT10N-004	Digital transmitter OLCT 10N, range 0-100% LEL C <sub>2</sub> H <sub>6</sub>
OLCT10N-005	Digital transmitter OLCT 10N, range 0-100% LEL C <sub>3</sub> H <sub>8</sub>
OLCT10N-200	Digital transmitter OLCT 10N, range 0-30% vol O <sub>2</sub> (2 year O <sub>2</sub> sensor)
OLCT10N-272	Digital transmitter OLCT 10N, range 0-30% vol O <sub>2</sub> (5 year O <sub>2</sub> sensor)
OLCT10N-204	Digital transmitter OLCT 10N, range 0-300 ppm CO
OLCT10N-205	Digital transmitter OLCT 10N, range 0-1000 ppm CO
OLCT10N-213	Digital transmitter OLCT 10N, range 0-30 ppm H <sub>2</sub> S
OLCT10N-214	Digital transmitter OLCT 10N, range 0-100 ppm H <sub>2</sub> S
OLCT10N-216	Digital transmitter OLCT 10N, range 0-100 ppm NO
OLCT10N-217	Digital transmitter OLCT 10N, range 0-300 ppm NO
OLCT10N-219	Digital transmitter OLCT 10N, range 0-10 ppm NO <sub>2</sub>
OLCT10N-220	Digital transmitter OLCT 10N, range 0-30 ppm NO <sub>2</sub>
OLCT10N-231	Digital transmitter OLCT 10N, range 0-100 ppm NH <sub>3</sub>
OLCT10N-232	Digital transmitter OLCT 10N, range 0-1000 ppm NH <sub>3</sub>
OLCT10N-252	Digital transmitter OLCT 10N, range 0-5000 ppm CO <sub>2</sub>
OLCT10N-239	Digital transmitter OLCT 10N, range 0-5% vol CO <sub>2</sub>
OLCT10N-241	Digital transmitter OLCT 10N, range 0-100% vol CO <sub>2</sub>

### Accessories

Shock guard protector (2123717)  
OLCT 10N calibration tool kit (6331163)

The OLCT 10N is the ideal solution for safe areas or zone 2 (22) ATEX locations.

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