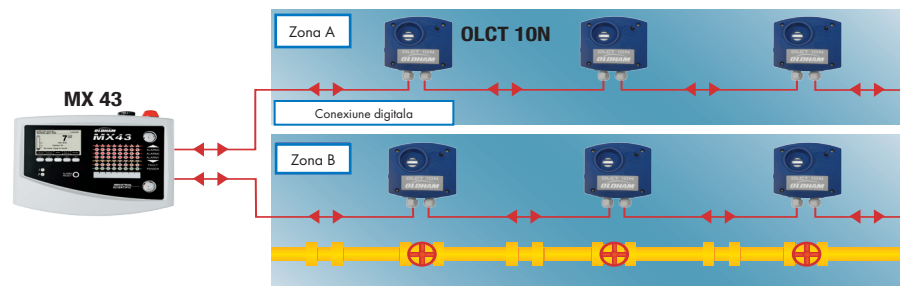# OLCT 10N

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 16, MX 32, MX43 or MX 256, 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 station.

Certified IP65 and ATEX 3 GD for its explosive version, it is authorized for use in ATEX zones 2 and 22 and is waterproof and dustproof.

Configuration example

Features

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

For pricing or any further information, please contact Omni Instruments Ltd.

Measurement and data acquisition solutions

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Technical Specifications

Détecteur numérique OLCT 10N

Range	CH_4, C_3H_8, C_4H_{10}, H_2	0-100 % LIE (-20°C à + 55°C)
	O_2 (> 2 years)	0-30 % vol (-20°C à + 50°C)
	O_2 (5 years)	0-30 % vol (-40°C à + 50°C)
	CO	0-300 ppm / 0-1000 ppm (-20°C à + 50°C)
	H_2S	0-30 ppm / 0-100 ppm (-20°C à + 50°C)
	NO	0-100 ppm / 0-300 ppm (-20°C à + 50°C)
	NO_2	0-10 ppm / 0-30 ppm (-20°C à + 50°C)
	NH_3	0-100 ppm / 0-1000 ppm (-20°C à + 40°C)
	CO_2	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:	2.5 mA in normal operation @ 24 Vdc
	Catalytic sensor :	50 mA in normal operation @ 24 Vdc
	CO_2 Infrared sensor:	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 mm² (AWG 18) core size cable	
	Up to 8 explosive gas detectors at 225 m with a 0.9 mm² (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 mm² (AWG 18) core size cable	
Dimensions (LxHxW)	118x110x60 mm	
Materials	ABS, UV and shocks resistant	
Ingress protection	IP65	
Approvals	for ATEX explosive versions II 3 GD	
	Ex nA nC IIC T4 Gc for explosimetric 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_4
OLCT10N-003	Digital transmitter OLCT 10N, range 0-100% LEL H_2
OLCT10N-004	Digital transmitter OLCT 10N, range 0-100% LEL C_4H_{10}
OLCT10N-005	Digital transmitter OLCT 10N, range 0-100% LEL C_3H_8
OLCT10N-200	Digital transmitter OLCT 10N, range 0-30% vol O_2 (2 year O_2 sensor)
OLCT10N-272	Digital transmitter OLCT 10N, range 0-30% vol O2 (5 year O_2 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_2S
OLCT10N-214	Digital transmitter OLCT 10N, range 0-100 ppm H_2S
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_2
OLCT10N-220	Digital transmitter OLCT 10N, range 0-30 ppm NO_2
OLCT10N-231	Digital transmitter OLCT 10N, range 0-100 ppm NH_3
OLCT10N-232	Digital transmitter OLCT 10N, range 0-1000 ppm NH_3
OLCT10N-252	Digital transmitter OLCT 10N, range 0-5000 ppm CO_2
OLCT10N-239	Digital transmitter OLCT 10N, range 0-5% vol CO_2
OLCT10N-241	Digital transmitter OLCT 10N, range 0-100% vol CO_2

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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