

DETECTORS-TRANSMITTERS FOR FLAMMABLE AND TOXIC GASES AND OXYGEN

SERIES 40

CH₄, CO, O₂, H₂S
CO₂, NH₃, Cl₂, O₃, NO, H₂, HCN, SiH₄



Approval: IS or FLP



Precalibrated
sensor unit



Resistant
to corrosive agents



IP 66



OLDHAM

*Your environment, your safety,
let's master them together*



Together we'll make your applications safe



Quay of loading LPG

It is essential to prevent any risk of asphyxia, poisoning or explosion due to the presence of a gas in order to ensure the safety of your applications.

OLDHAM has developed its SERIES 40, a new generation of gas detectors designed for production and other industries to cater for all detection requirements at an excellent price.

SERIE OLCT 40

DETECTOR-TRANSMITTER OLCT 40

The housing/cell unit assembly of the new generation of **OLCT 40** detectors-transmitters is especially resistant to external contaminants.

These devices are practical and easy to use.

The precalibrated cell units benefit from flameproof or intrinsic safety approval according to your needs or the gases they detect.



OLCT 40

GASES	TYPE OF SENSOR	RANGE (IN PPM)	OPERATING TEMPERATURE
O ₂	ELECTROCHEMICAL	30,00%	-20°C TO +50°C
CO	ELECTROCHEMICAL	100 300 1000	-20°C TO +50°C -20°C TO +50°C -20°C TO +50°C
H ₂ S	ELECTROCHEMICAL	30,0 100 1000	-20°C TO +50°C -20°C TO +50°C -20°C TO +50°C
NO	ELECTROCHEMICAL	100 300 1000	-20°C TO +50°C -20°C TO +50°C -20°C TO +50°C
NO ₂	ELECTROCHEMICAL	10,0 30,0	-20°C TO +50°C -20°C TO +50°C
SO ₂	ELECTROCHEMICAL	10,0 30,0 100	-20°C TO +50°C -20°C TO +50°C -20°C TO +50°C
Cl ₂	ELECTROCHEMICAL	10,0	-20°C TO +50°C
H ₂	ELECTROCHEMICAL	2000	-20°C TO +50°C
HCl	ELECTROCHEMICAL	30,0 100	-20°C TO +50°C -20°C TO +50°C
HCN	ELECTROCHEMICAL	10,0 30,0	-20°C TO +50°C -20°C TO +50°C
HF	ELECTROCHEMICAL	10,0	-10°C TO +30°C
NH ₃	ELECTROCHEMICAL	100 1000	-20°C TO +50°C -20°C TO +50°C
ETO/PO	ELECTROCHEMICAL	30,0	-20°C TO +50°C
O ₃	ELECTROCHEMICAL	1,00	-20°C TO +50°C
PH ₃	ELECTROCHEMICAL	1,00	-20°C TO +50°C
ClO ₂	ELECTROCHEMICAL	3,00	-20°C TO +50°C
SiH ₄	ELECTROCHEMICAL	50	-20°C TO +50°C
COCl ₂	ELECTROCHEMICAL	3	-20°C TO +40°C
CH ₄	CATHAROMETER	0 - 100% VOL	-20°C TO +50°C
H ₂	CATHAROMETER	0 - 100% VOL	-20°C TO +50°C
NH ₃	CATALYTIC	0 - 5000	-20°C TO +50°C
FLAMMABLE	CATALYTIC	0 - 100% LIE	-20°C TO +70°C -20°C TO 200°C

GASES	IS	FLAMEPROOF
O ₂	YES	YES
CO	YES	YES
H ₂ S	YES	YES
NO	YES	YES
NO ₂	YES	NO
SO ₂	YES	NO
Cl ₂	YES	NO
H ₂	YES	OUI
HCl	YES	NO
HCN	YES	NO
NH ₃	YES	YES
ETO	YES	NO
O ₃	YES	NO
PH ₃	YES	NO
ClO ₂	YES	NO
SiH ₄	YES	NO
HF	YES	NO

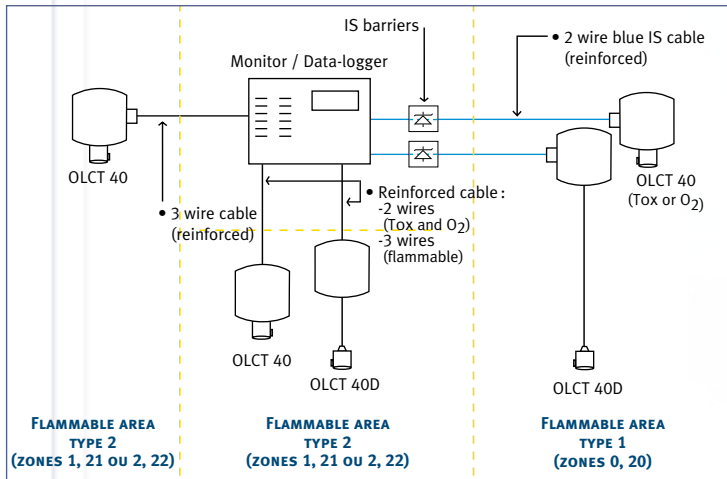
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RELATIVE HUMIDITY UNCONDENSED	PRESSURE	ACCURACY AT PA FULL SCALE	LIFE SPAN (IN MONTH)	T (50)	IP
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	28	10	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
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10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	24	20	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	24	20	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	15	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	24	50	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	24	50	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	24	50	66
10% TO 95% RH	ATM +/- 10%	+/- 2%	24	30	66
10% TO 95% RH	ATM +/- 10%	+/- 2%	24	30	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	18	50	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	24	50	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	24	50	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	36	50	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	18	40	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	18	40	66
10% TO 95% RH	ATM +/- 10%	+/- 2%	24	50	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	18	40	66
10% TO 95% RH	ATM +/- 10%	+/- 3%	18	50	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	60	5	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	60	5	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	36	8	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	60	5	66
10% TO 95% RH	ATM +/- 10%	+/- 1,5%	60	5	66

⊕ DETECTOR-TRANSMITTER OLCT 40D

Based directly on the **OLCT 40** detector-transmitter, version **OLCT 40D** allows the cell unit to be used in remote mode up to 15 meters (standard version) so that detection can be performed in the most inaccessible locations.

WIRING CONNECTION DEPENDING ON THE DIFFERENT AREAS



New generation : new advantages

The cell units of 316L stainless steel provide robustness and resistance to corrosive agents. Classified IP 66, they are resistant to dust and water ingress. Precalibrated cells of the **OLCT 40** and **OLCT 40D** are disconnected by turning the head of the unit. These cells, which are equipped with a printed circuit, can be calibrated, on an autonomous bench, outside hazardous areas.

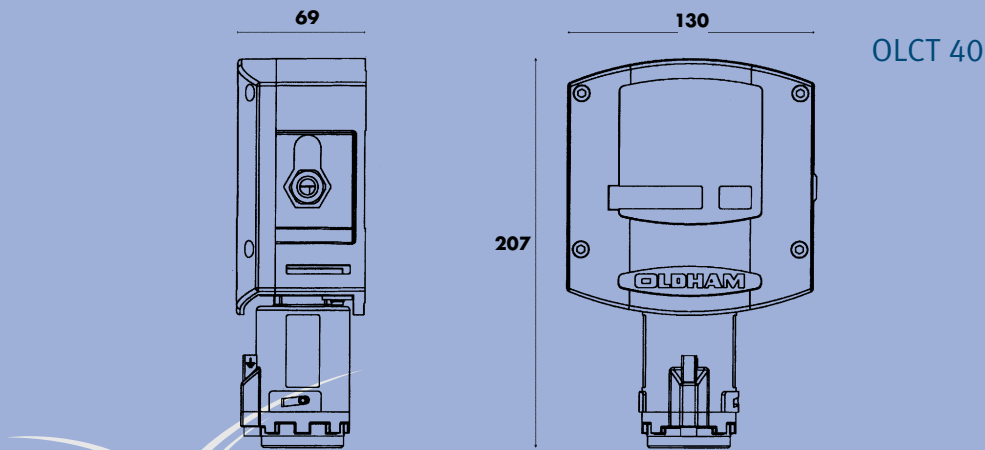
Accessoires

- ① Tool kit
- ② Gas input device :
 - standard model : O₂ , CO, H₂S, NO, H₂
 - model for special gases : NO₂, SO₂, Cl₂, HCl, HCN, HF, NH₃, ETO, O₃, ClO₂, PH₃
- ③ Gas circulation head for explosive gases, CO, H₂S, O₂
- ④ Anti-splash device
- ⑤ Remote gas injection device
- ⑥ PTFE protective filter/ Activated carbon filter (additional protection of the cell)
- ⑦ Fastening device
- ⑧ Gas collectors
- ⑨ Pitot tube
- ⑩ Remote fastening device



TECHNICAL CHARACTERISTICS

DETECTORS	OLCT 40		OLCT 40 D	
MANUFACTURER	• OLDHAM SA		• OLDHAM SA	
TYPE	• Flameproof transmitter	• IS transmitter	• Remote Flameproof transmitter	• IS remote transmitter
GAS DETECTION PRINCIPLE	• Catalitic / chemical	• Chemical	• Catalitic / chemical	• Chemical
DETECTED GASES	• Flammable and toxic gases, oxygen	• Toxic gases and oxygen	• Flammable and toxic gases, oxygen	• Toxic gases and oxygen
CELL RANGE	See inside the brochure			
CASING	• Polycarbonate		• Polycarbonate	
CELL MATERIAL	• INOX 316 L		• INOX 316 L	
PRECALIBRATED SENSOR	yes	yes	yes	yes
POWER SUPPLY AT THE DETECTOR	• 15 to 30 VDC (catalytic) • 10 to 30 VDC (chemical)	• 10 to 26 VDC	• 15 to 30 VDC (catalytic) • 10 to 30 VDC (chemical)	• 10 to 26 VDC
MAXIMUM POWER CONSUMPTION	• 100 mA (catalytic) • 25 mA (chemical)	• 25 mA	• 100 mA (catalytic) • 25 mA (chemical)	• 25mA
OUTPUT SIGNAL	• 4-20 mA	• 4-20 mA	• 4-20 mA	• 4-20 mA
LOAD IMPEDANCE	• 250 Ω (catalytic) • Depending on power supply (chemical)	• 47 Ω max	• 250 Ω (catalytic) • Depending on power supply (chemical)	• 47 Ω max
WIRING	• 3 reinforced wires (catalytic) • 2 reinforced wires (chemical)	• 2 reinforced wires	• 3 reinforced wires (catalytic) • 2 reinforced wires (chemical)	• 2 reinforced wires
LOOP IMPEDANCE WITH OLDHAM MONITOR	• 32 Ω (catalytic) (1 km with 1,5 mm ²) • 128 Ω (chemical) (4 km with 1,5 mm ²)	• 32 Ω (1 km with 1,5 mm ²)	• 32 Ω (catalytic) (1 km with 1,5 mm ²) • 128 Ω (chemical) (4 km with 1,5 mm ²)	• 32 Ω (1 km with 1,5 mm ²)
WIRING CONNEXION	• PG 9 gland (6 to 11 mm cable)		• PG 9 gland (6 to 11 mm cable)	
FASTENING	• 4 screws of 5 mm diameter and brace			
INGRESS PROTECTION	• IP 66	• IP 66	• IP 66	• IP 66
CERTIFICATION	• EEx e d IIC T6 • II 2 GD • INERIS 01 ATEX0006X	• EEx ia IIC T4 • II 1 GD • INERIS 01 ATEX0006X	• EEx e d IIC T6 • II 2 GD • INERIS 01 ATEX0006X	• EEx ia IIC T4 • II 1 GD • INERIS 01 ATEX0006X
CEM MARK	• EN 50270	• EN 50270	• EN 50270	• EN 50270
WEIGHT	• 1,300 kg		• 1,300 kg	
DIMENSIONS	• L 130 x L 207 x H 69 mm	• L 130 x L 207 x H 69 mm	• L 130 x L 170x H 69 mm	• L 130 x L 170 x H 69 mm
OPERATING (FOR ELECTRONICS)	• -25°C to +60°C		• -25°C to +60°C	



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DETECTION GAZ / MESURE A L'EMISSION
GAS DETECTION / STACK GAS MONITORING

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