


DETECTORS-TRANSMITTERS FOR FLAMMABLE, TOXIC GASES AND OXYGEN

SERIES 60
CH₄, CO, O₂, H₂S
CO₂, NH₃, Cl₂, O₃, NO, H₂, HCN, SiH₄

 IS* and FLP approved

 Back-light display

 Pre-calibrated cell

 Non intrusivelocal
calibration

 IP 66



OLDHAM

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

CE  ATEX

Let's secure your safety together



If you are involved in industry, you will be aware Health and Safety risks, including gas leaks, explosions, intoxication or asphyxia. You will also know that early indication of such dangers can save lives and money.

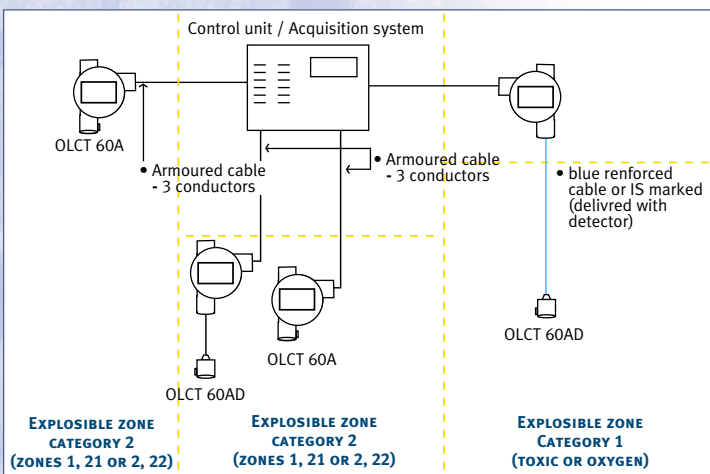
OLDHAM has developed the RANGE 60, a new generation of high quality gas detectors which cover all industrial needs at an excellent price.

SERIES 60

⊕ THE OLCT 60 SERIES IS COMPOSED OF SEVERAL VERSIONS

- IS or FLP cell (toxic or oxygen versions)
- Remote or integrated cell. The **OLCT 60AD** version allows the cell to be used in remote mode up to 15 metres (standard), allowing detection in extreme inaccessible locations or in Zone 0 in the case of the intrinsically safe (IS) version.

DRAWING OF CONNECTIONS PER ZONE



OLCT 60A

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

* temperature at 20°C and at Atmospheric Pressure

GASES	SI	ADF
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	YES
HCl	YES	NO
HCN	YES	NO
NH ₃	YES	YES
ETO/PRO	YES	NO
O ₃	YES	NO
PH ₃	YES	NO
AsH ₃	YES	NO
ClO ₂	YES	NO
COCl ₂	YES	NO
SiH ₄	YES	NO
HF	YES	NO

ifications

RELATIVE HUMIDITY UNCONDENSED	PRESSURE	ACCURACY AT FULL SCALE (AT ATMOSPHERIC PRESSURE)	LIFE SPAN (IN MONTH)	T (50)	IP
10% to 95% RH	ATM +/- 10%	from 5 to 30% = 0,4%VOL	28	6	66
10% to 95% RH	ATM +/- 10%	+/- 2 PPM (RANGE 0-100)	48	10	66
10% to 95% RH	ATM +/- 10%	+/- 1,5 PPM (between 0-30 PPM)	48	15	66
10% to 95% RH	ATM +/- 10%	+/- 2 PPM (RANGE 0-100)	36	15	66
10% to 95% RH	ATM +/- 10%	+/- 0,8 PPM	26	20	66
10% to 95% RH	ATM +/- 10%	+/- 0,7 PPM RANGE 0-10	36	15	66
10% to 95% RH	ATM +/- 10%	+/- 0,5 PPM	26	50	66
10% to 95% RH	ATM +/- 10%	+/-5 PPM RANGE 0-100	26	50	66
10% to 95% RH	ATM +/- 10%	+/- 0,5 PPM RANGE 0-10	26	50	66
10% to 95% RH	ATM +/- 10%	+/- 0,3 PPM RANGE 0-10	26	40	66
10% to 95% RH	ATM +/- 10%	+/- 0,5 PPM	20	50	66
10% to 95% RH	ATM +/- 10%	+/- 5 PPM	26	50	66
10% to 95% RH	ATM +/- 10%	+/- 10 PPM RANGE 0-1000	26	50	66
10% to 95% RH	ATM +/- 10%	+/- 1 PPM	36	50	66
10% to 95% RH	ATM +/- 10%	+/-0,05 PPM	20	50	66
10% to 95% RH	ATM +/- 10%	+/- 0,05 PPM	20	40	66
10% to 95% RH	ATM +/- 10%	+/- 0,3 PPM	26	50	66
10% to 95% RH	ATM +/- 10%	+/- 1 PPM	20	40	66
10% to 95% RH	ATM +/- 10%	+/- 0,05 PPM	20	50	66
20% to 95% RH	ATM +/- 10%	+/- 0,05 PPM	26	40	66
10% to 95% RH	ATM +/- 10%	1% VOL	60	5	66
10% to 95% RH	ATM +/- 10%	1 % VOL	60	5	66
10% to 95% RH	ATM +/- 10%	100 PPM	36	8	66
10% to 95% RH	ATM +/- 10%	1 % LEL between 0- 60 % LEL	60	5	66
10% to 95% RH	ATM +/- 10%	1 % LEL between 0- 60 % LEL	60	5	66

H₂, C₂H₆, O₂, GN

New generation : new advantages

The detectors fully comply to the European ATEX standard and are to be used in all places where there is a risk linked to gas or dust present.

The cell units are made of 316L stainless steel, robust and resistant to corrosive agents. Pre-calibrated cells can be disconnected by turning the head of the unit. The cells, which are equipped with a printed circuit, can be calibrated outside hazardous areas on a bench. They are available at either 230 V AC, 125 V AC or 24 V DC.

The **60 SERIES** is equipped with non intrusive devices giving to the operator an access to a safe menu. Detector calibration, in flammable area, can be done with an operating mode in accordance with safety rules.

- Access to maintenance menu
- Pure air injection
- Zero validation*
- Standard gas injection
- Calibration validation taking into account the usage rate*

* Automatic adjustment of zero and sensitivity

All these tasks can be carried out without opening the detector, with as unique tool, a magnetic key which do not require a fire licence.

Access to the maintenance mode is protected to avoid accidentally re programming the machine.



OLCT 60AD

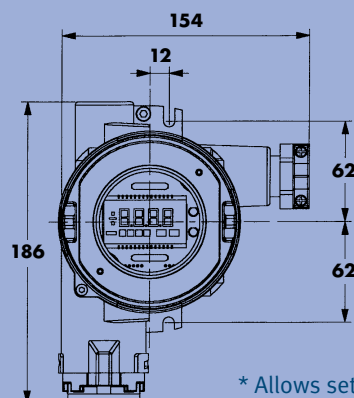
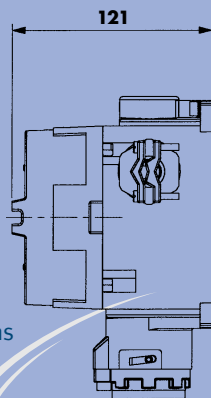
Accessories

- ① Magnetic calibration key
- ② Tools
- ③ Gas introduction kit :
 - Standard model : flammable, O₂ , CO, H₂S, NO, H₂
 - Special gases model : NO₂, SO₂, Cl₂, HCl, HCN, HF, NH₃, ETO, O₃, ClO₂, PH₃, AsH₃, SiH₄ ...
- ④ Gas circulation head for flammable gases, CO, H₂S, O₂
- ⑤ Splash guard
- ⑥ Remote gas introduction head
- ⑦ PTFE protective filter / activated carbon filter (for extra protection of the cell)
- ⑧ Fixation brace
- ⑨ Gas collectors
- ⑩ Pitot tube
- ⑪ Fixing kit for remote cell block



TECHNICAL CHARACTERISTICS

CAPTEURS	OLCT 60A	OLCT 60AD
MANUFACTURER	• OLDHAM SA	• OLDHAM SA
TYPE	• Transmitter with display • Flameproof	• Remote transmitter with display • FLP or IS*
GAS DETECTION PRINCIPLE	• Catalytic / chemical	• Catalytic / chemical
DETECTED GASES	• Flammable & toxic gases and oxygen	• Flammable & toxic gases and oxygen
CELL RANGE	See inside the brochure	
CASING	• AS7 606 alloy - epoxy polyester paint	
CELL		
MATERIAL	• INOX 316 L	• INOX 316 L
PRE-CALIBRATED SENSOR	yes	yes
READING	• Backlight LCD display (4 digits) + pictograms + 2 LEDs	• Backlight LCD display (4 digits) + pictograms + 2 LEDs
POWER SUPPLY AT THE DETECTOR	• 15 to 30 VDC	• 15 to 30 VDC
MAXIMUM POWER CONSUMPTION	• 140 mA (catalytic) • 80 mA (chemical)	• 140 mA (catalytic) • 80 mA (chemical)
OUTPUT SIGNAL	• 4-20 mA	• 4-20 mA
DEFAULT SIGNAL	• < 1 mA	• < 1 mA
READING	• By LEDs and display	• By LEDs and display
LOAD IMPEDANCE	• 250 Ω	• 250 Ω
CABLING	• 3 reinforced wires	• 3 reinforced wires
LOOP IMPEDANCE WITH OLDHAM MONITOR	• 32 Ω (catalytic) (1 km in 1,5 mm ²) • 48 Ω (chemical) (1,5 km in 1,5 mm ²)	• 32 Ω (catalytic) (1 km in 1,5 mm ²) • 48 Ω (chemical) (1,5 km in 1,5 mm ²)
WIRING CONNEXION	• Gland • Cable 2 to 12 mm standard	• Gland • Cable 2 to 12 mm standard
FASTENING	• 2 x 7 mm holes	• 2 x 7 mm holes
INGRESS PROTECTION	• IP 66	• IP 66
CERTIFICATION	• EEx d IIC T6 • EEx d [ia] ia IIC T4 (with IS cell) • ATEX II 2 GD • INERIS 01ATEX0027X	• EEx d IIC T6 • EEx d [ia] ia IIC T4 (with IS cell)* • ATEX II 2 GD • INERIS 01ATEX0027X
CEM MARK	• EN 50270	• EN 50270
WEIGHT	• 1,6 kg	• 1,6 kg
DIMENSIONS	• L 154 x L 186 x H 121 mm	• L 154 x L 200 x H 121 mm
OPERATING TEMPERATURE	• -25°C to +55°C	• -25°C to +55°C



OLCT 60A

* Allows setting of toxic or O₂ cell block in "0 zone"

Subject to operation conditions

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

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