

# Gas detectors

**CTX 300**



■ ■ ■ *Quick response times*

■ ■ ■ *Precalibrated sensor modules*

■ ■ ■ *One man calibration*

■ ■ ■ *Local display optional*

■ ■ ■ *High resistance to hostile environments*

CE

**OLDHAM**  
Group

*Gas detection / stack gas monitoring*

## Let's secure your safety together



Example : Boiler room

The detection of toxic gases or a lack of oxygen requires the installation of detectors satisfying increasingly demanding requirements. The OLDHAM CTX 300 range is designed to cater for all safety needs on your unclassified sites.

The CTX 300 transmits the relevant data in record time, covering all hazard situations and providing extremely flexible utilization by way of its very wide range of sensors.

Equipped with its precalibrated sensors, its display unit and its adjusting devices, the CTX 300 detector-transmitter can be maintained by one person.

This OLDHAM innovation significantly reduces costs.

## Flexible utilization and reduced maintenance

For Oldham, satisfying your safety requirements means making genuine technical breakthroughs as well as providing you with clear economic benefits.

Sensors integrating zero and sensitivity parameters are used so that maintenance is quick and safe.

The principle of the precalibrated cell unit means that maintenance by a single person is now possible and allows significant reductions in costs.

### **Compliance with standards**

- Compliance with European standards
- EMC in compliance with directives



A precalibrated sensor for easier maintenance



# Polyvalence et modularité

Gas	Type of sensor	Range (in ppm)	Operating temperature	Relative humidity uncondensed
O <sub>2</sub>	electrochemical	30,0%	-20°C to + 50°C	10% to 95% RH
		100%	5°C to 40°C	10% to 95% RH
CO	electrochemical	100	-20°C to + 50°C	10% to 95% RH
		300	-20°C to + 50°C	10% to 95% RH
		1000	-20°C to + 50°C	10% to 95% RH
		1,00%	-20°C to + 50°C	10% to 95% RH
		10,00%	-20°C to + 50°C	10% to 95% RH
H <sub>2</sub> S	electrochemical	30,0	-20°C to + 50°C	10% to 95% RH
		100	-20°C to + 50°C	10% to 95% RH
		1000	-20°C to + 50°C	10% to 95% RH
NO	electrochemical	100	-20°C to + 50°C	10% to 95% RH
		300	-20°C to + 50°C	10% to 95% RH
		1000	-20°C to + 50°C	10% to 95% RH
NO <sub>2</sub>	electrochemical	10,0	-20°C to + 50°C	10% to 95% RH
		30,0	-20°C to + 50°C	10% to 95% RH
SO <sub>2</sub>	electrochemical	10,0	-20°C to + 50°C	10% to 95% RH
		30,0	-20°C to + 50°C	10% to 95% RH
		100	-20°C to + 50°C	10% to 95% RH
Cl <sub>2</sub>	electrochemical	10,0	-20°C to + 50°C	10% to 95% RH
H <sub>2</sub>	electrochemical	2000	-20°C to + 50°C	10% to 95% RH
HCl	electrochemical	30,0	-20°C to + 50°C	10% to 95% RH
		100	-20°C to + 50°C	10% to 95% RH
HCN	electrochemical	10,0	-20°C to + 50°C	10% to 95% RH
		30,0	-20°C to + 50°C	10% to 95% RH
NH <sub>3</sub>	electrochemical	100	-20°C to + 50°C	10% to 95% RH
		1000	-20°C to + 50°C	10% to 95% RH
ETO/PO	electrochemical	30,0	-20°C to + 50°C	10% to 95% RH
HF	electrochemical	10,0	-10°C to + 30°C	10% to 95% RH
O <sub>3</sub>	electrochemical	1,00	-20°C to + 50°C	10% to 95% RH
PH <sub>3</sub>	electrochemical	1,00	-20°C to + 50°C	10% to 95% RH
ClO <sub>2</sub>	electrochemical	3,00	-20°C to + 50°C	10% to 95% RH
COCl <sub>2</sub>	electrochemical	3,00	-20°C to + 40°C	10% to 95% RH
Methylene chloride	semiconductor	500	-20°C to +55°C	10% to 95% RH
Methyl chloride	semiconductor	500	-20°C to +60°C	10% to 95% RH
Toluene	semiconductor	2000	-20°C to +50°C	10% to 95% RH
	semiconductor	500	-20°C to +50°C	10% to 95% RH
Trichloroethylene	semiconductor	500	-20°C to +60°C	10% to 95% RH
Xylene	semiconductor	2000	-20°C to +50°C	10% to 95% RH
Ethanol	semiconductor	5000	-20°C to +60°C	10% to 95% RH
	semiconductor	500	-20°C to +50°C	10% to 95% RH
R12	semiconductor	10000	-20°C to +55°C'	10% to 95% RH
R22	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R123	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R134a	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R142b	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R11	semiconductor	10000	-20°C to +55°C'	10% to 95% RH
R23	semiconductor	10000	-20°C to +55°C'	10% to 95% RH
R141b	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R143a	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R404a	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R507	semiconductor	2000	-20°C to +55°C'	10% to 95% RH
R410a	semiconductor	1000	-20°C to +55°C'	10% to 95% RH
R32	semiconductor	1000	-20°C to +55°C'	10% to 95% RH

Other gases on request

Pressure	Accuracy at PA full scale	Life span (in month)	T (50)	IP
Atm +/- 10%	+/- 1,5%	28	10	66
Atm +/- 10%	+/- 1,5%	36	< 20s	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	< 20s	66
Atm +/- 10%	+/- 1,5%	36	< 20s	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	24	20	66
Atm +/- 10%	+/- 1,5%	24	20	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	36	15	66
Atm +/- 10%	+/- 1,5%	24	50	66
Atm +/- 10%	+/- 1,5%	24	50	66
Atm +/- 10%	+/- 1,5%	24	50	66
Atm +/- 10%	+/- 1,5%	24	50	66
Atm +/- 10%	+/- 2%	24	30	66
Atm +/- 10%	+/- 2%	24	30	66
Atm +/- 10%	+/- 3%	24	50	66
Atm +/- 10%	+/- 3%	24	50	66
Atm +/- 10%	+/- 3%l	36	50	66
Atm +/- 10%	+/- 3%	18	50	66
Atm +/- 10%	+/- 3%	18	40	66
Atm +/- 10%	+/- 3%	18	40	66
Atm +/- 10%	+/- 2%	24	50	66
Atm +/- 10%	+/- 1,5%	18	50	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	40	66
Atm +/- 10%	+/-20% relative to alarm thershold	18	40	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	20	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	20	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	40	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	20	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	20	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	20	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	30	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	20	66
Atm +/- 10%	+/-15% relative to alarm thershold	18	20	66

# ■ ■ ■ Better performances, enhanced ergonomics

## **Better performances**

- Excellent sensitivity and signal stability
- 2 mA signal for setting to maintenance mode
- Signal lower than 1 mA for failure mode

## **Clear readability**

- Highly sensitive, lighted display allowing local reading
- Effective power-up indication by indicator lights
- Indication of maintenance or fault function

## **High-Level technology**

- Precalibrated sensor avoiding the need to use unstable gases on site for calibration purposes
- Remote sensor unit allowing measurements in even the most inaccessible places
- High-performance semiconductor type detector (detection of freon gas, etc.)

## **Advanced design**

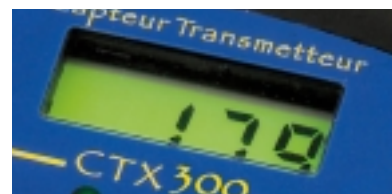
- Result of scientific studies
- High resistance to environmental constraints
- Avoids having to use protective devices

## **Heavy-duty robustness**

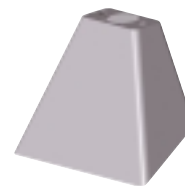
- Use of polycarbonate and stainless steel attaching hardware
- Insensitive to corrosive agents
- High mechanical strength

## **Specifically adapted options**

- CTX 300 vehicle park Co version can be equipped with two packing glands for loop installation
- Removable filters, interchangeable without opening the housing (which is dust-proof, condensation-proof and water-resistant)
- Anti-splash device
- Gas collector cone
- Remote gas injection system
- Bellcrank brackets
- Pitot tubes, floats, heating protective device, etc.



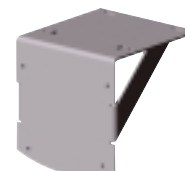
lighted display



Gas collector



Gas input device



Mounting bracket



Circulation head



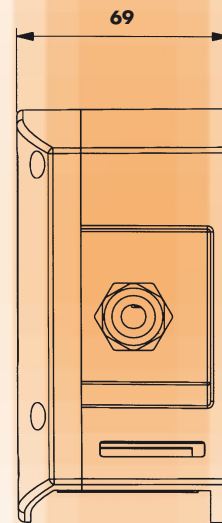
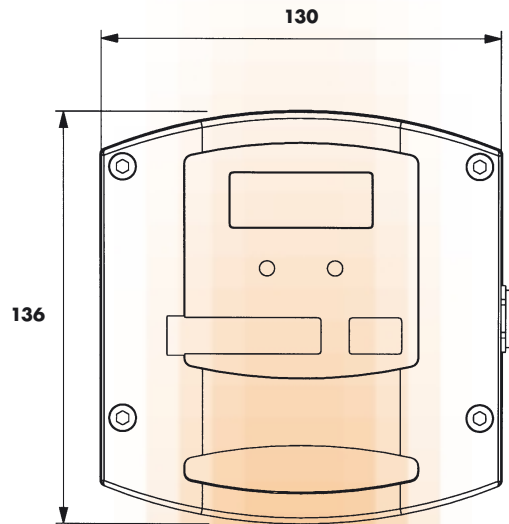
A wide range of sensors\*

\*Sensors manufactured in our factory

## Technical characteristics

Manufacturer :	• OLDHAM SA
Enclosure :	• Polycarbonate housing
Function :	• Detector-transmitter
Display :	• High-brilliance backlight display unit (on option)
Indicator lights :	• In operation: green colour
(on CTX 300 : 3-wire)	• Failure / maintenance : yellow colour
Link :	• 2 wires on detector CTX 300 without display unit • 3 wires on detector CTX 300 with display unit
Cable inlet :	• Between 6 and 11, gland PG9
Power supply :	• Gas monitor OLDHAM • On battery : 15 to 32 V DC
Consumption :	• CTX 300 without display unit : 27 mA • CTX 300 with display unit : 110 mA
Operating temperature :	• -20°C to + 50°C
Sealing :	• IP 66
Weight :	• 520 g
Dimensions :	• 130 x 136 x 69 (lxhxd) in mm
Certification :	• Safe area only
EMC :	• Compliance with directives

Subject to operation conditions



**CTX 300**

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