

CTX 300

FIXED GAS DETECTOR

- Detection of toxic gases or oxygen
- Interchangeable and pre-calibrated sensor modules
- Local display (optional)
- Durable in harsh environments
- Up to 5 years of life for Cell O₂

Oldham has been a major operator in the field of safety and more precisely in fire and gas detection since more than one century.

The CTX 300 can detect O₂, CO₂, toxic and refrigerant gases.

Oldham offers a detector version with a wide range of sensors (infrared, electrochemical, semiconductor) according to your application needs. It is also available with or without display.



REDUCED MAINTENANCE

As the only consumable element, the CTX 300 measuring cell (measuring sensor) is interchangeable, pre-calibrated from the factory departure according to the certificate attached to the consignment. So, during the sensor change, neither calibration gas, nor monitor control, nor remote control have to be manipulated.

SIMPLICITY

During a probe handle change, no specific storage procedure or sensor data validation is needed. A simple exchange without powering off sensors is required.

CERTIFICATIONS



Pre-calibrated sensor for easier maintenance

The Fixed Gas Detection People

For any further information please contact us.
Tel: +44 (0)845 9000 601 or visit our website.



www.omniinstruments.co.uk

SENSORS TECHNICAL SPECIFICATIONS

Gas	Part Number	Type of sensor	Range (ppm)	Operating temperature	Relative humidity uncondensed	
O ₂	WC3□O2F	Electrochemical	30.0 %	-20 °C to +50 °C	10 % to 95 % RH	
	WC30O2G		30.0 % 	-40 °C to +50 °C	10 % to 95 % RH	
	WC3AO2G		30.0 %	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□O2S		100 %	+5 °C to +40 °C	10 % to 95 % RH	
CO	WC3□COA	Electrochemical	100	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□COB		300	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□COC		1000	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□COD		1.00 %	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□COE		10.0 %	-20 °C to +50 °C	10 % to 95 % RH	
CO ₂	WC3□CO2A	Infrared	0.50% (5000ppm)	-40°C to +50°C	0 % to 95 % RH	
	WC3□CO2B		5.00 % 	-40°C to +50°C	0 % to 95 % RH	
	WC3□CO2C		100 %	-40 °C to +50 °C	0 % to 95 % RH	
H ₂ S	WC3□HSA	Electrochemical	30.0	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□HSB		100	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□HSC		1000	-20 °C to +50 °C	10 % to 95 % RH	
NO	WC3□NOA	Electrochemical	100	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□NOB		300	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□NOC		1000	-20 °C to +50 °C	10 % to 95 % RH	
NO ₂	WC3□N2A	Electrochemical	10.0	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□N2B		30.0	-20 °C to +50 °C	10 % to 95 % RH	
SO ₂	WC3□SOA	Electrochemical	10.0	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□SOB		30.0	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□SOC		100	-20 °C to +50 °C	10 % to 95 % RH	
Cl ₂	WC3□CL2	Electrochemical	10.0	-20 °C to +50 °C	10 % to 95 % RH	
H ₂	WC3□H2A	Electrochemical	2000	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□H2B		2 %	-20 °C to +50 °C	10 % to 95 % RH	
HCl	WC3□HLA	Electrochemical	30.0	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□HLB		100	-20 °C to +50 °C	10 % to 95 % RH	
HCN	WC3□HNA	Electrochemical	10.0	-20 °C to +50 °C	10 % to 95 % RH	
	WC3□HNB		30.0	-20 °C to +50 °C	10 % to 95 % RH	
NH ₃	WC3□NH3	Electrochemical	100	-20 °C to +40 °C	10 % to 95 % RH	
	WC30NH3F		100 	-40 °C to +40 °C	10 % to 95 % RH	
	WC3□NH1		1000	-20 °C to +40 °C	10 % to 95 % RH	
	WC30NH2		5000	-20 °C to +40 °C	10 % to 95 % RH	
ETO/PO	WC3□OET	Electrochemical	30.0	-20 °C to +50 °C	10 % to 95 % RH	
HF	WC3□HFA	Electrochemical	10.0	-10 °C to +30 °C	10 % to 95 % RH	
O ₃	WC3□O3A	Electrochemical	1.00	-20 °C to +50 °C	10 % to 95 % RH	
PH ₃	WC3□PH3	Electrochemical	1.00	-20 °C to +50 °C	10 % to 95 % RH	
ClO ₂	WC3□CLO	Electrochemical	3.00	-20 °C to +50 °C	10 % to 95 % RH	
COCl ₂	WC3□CCL	Electrochemical	3.00	-20 °C to +40 °C	10 % to 95 % RH	
Methylene chloride	CTX300-507	Semiconductor	500	-20 °C to +55 °C	10 % to 95 % RH	
Methyl chloride	CTX300-508	Semiconductor	500	-20 °C to +60 °C	10 % to 95 % RH	
Toluene	CTX300-652	Semiconductor	2000	-20 °C to +50 °C	10 % to 95 % RH	
	CTX300-657		500	-20 °C to +50 °C	10 % to 95 % RH	
Trichlorethylene	CTX300-655	Semiconductor	500	-20 °C to +60 °C	10 % to 95 % RH	
Xylene	CTX300-653	Semiconductor	2000	-20 °C to +50 °C	10 % to 95 % RH	
	CTX300-660	Semiconductor	500	-20 °C to +55 °C	10 % to 95 % RH	
Ethanol	CTX300-654	Semiconductor	5000	-20 °C to +60 °C	10 % to 95 % RH	
	CTX300-656		500	-20 °C to +50 °C	10 % to 95 % RH	
R12	CTX300-500	Semiconductor	10000	-20 °C to +55 °C	10 % to 95 % RH	
R22	CTX300-501	Semiconductor	2000	-20 °C to +55 °C	10 % to 95 % RH	
R123	CTX300-509	Semiconductor	2000	-20 °C to +55 °C	10 % to 95 % RH	
R134a	CTX300-502	Semiconductor	2000	-20 °C to +55 °C	10 % to 95 % RH	
R11	CTX300-505	Semiconductor	10000	-20 °C to +55 °C	10 % to 95 % RH	
R23	CTX300-506	Semiconductor	10000	-20 °C to +55 °C	10 % to 95 % RH	
R143a	CTX300-511	Semiconductor	2000	-20 °C to +55 °C	10 % to 95 % RH	
R245fa	CTX300-521	Semiconductor	1000	-20 °C to +55 °C	10 % to 95 % RH	
R404a	CTX300-512	Semiconductor	2000	-20 °C to +55 °C	10 % to 95 % RH	
R507	CTX300-513	Semiconductor	2000	-20 °C to +55 °C	10 % to 95 % RH	
R410a	CTX300-514	Semiconductor	1000	-20 °C to +55 °C	10 % to 95 % RH	
R32	CTX300-515	Semiconductor	1000	-20 °C to +55 °C	10 % to 95 % RH	
HFO-1234ze	CTX300-525	Semiconductor	1000	-20 °C to +55 °C	10 % to 95 % RH	
HFO-1234yf	CTX300-662	Semiconductor	1000	-20 °C to +55 °C	10 % to 95 % RH	

If you have any questions about other gases or ranges, please consult us at info@omni.uk.com

Ordering example for CTX 300:

WC3□O2F: - without display Order WC3~~O~~O2F
- with display Order WC3A~~O~~O2F

	Accuracy (% at PA full scale)	Life span (in months)	T(50) (seconds)
	+/- 1.5 %	28	10
	+/- 1.5 %	60	10
	+/- 1.5 %	60	10
	+/- 1.5 %	36	< 20
	+/- 1.5 %	48	15
	+/- 1.5 %	48	15
	+/- 1.5 %	48	15
	+/- 1.5 %	48	< 20
	+/- 1.5 %	48	< 20
	+/- 2 %	60	<20
	+/- 2 %	60	<20
	+/- 2 %	60	<20
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	24	20
	+/- 1.5 %	24	20
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	36	15
	+/- 1.5 %	24	50
	+/- 1.5 %	24	50
	+/- 1.5 %	24	50
	+/- 1.5 %	18	50
	+/- 1.5 %	18	50
	+/- 2 %	24	30
	+/- 2 %	24	30
	+/- 3 %	24	<20
	+/- 3 %	24	<20
	+/- 3 %	24	<20
	+/- 3 %	24	<20
	+/- 3 %	36	50
	+/- 3 %	12	50
	+/- 3 %	18	40
	+/- 3 %	12	40
	+/- 2 %	24	50
	+/- 1.5 %	18	50
	+/- 15 % relative to alarm threshold	36	40
		36	40
		36	20
		36	40
		36	20
		36	20
		36	20
		36	20
		36	30
		36	30
		36	30
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		36	30
		36	30
		36	30
		36	20
		36	20
		36	30
		36	30



Pre-calibrated sensors ease maintenance

ACCESSORIES



Gas collector



Calibration cup



Remote calibration cup



Mounting bracket



Bypass adapter

CLEAR READABILITY

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

HIGH-LEVEL TECHNOLOGY

- Pre-calibrated sensor avoiding the need to use unstable gases on site for calibration purposes
- High-performance semiconductor type detector (detection of freon gas, etc.)
- Available in an infrared version for CO₂

ADVANCED DESIGN

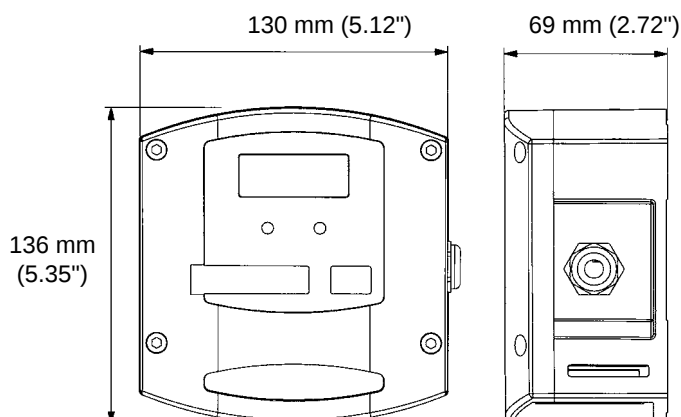
- Highly resistant to environmental elements
- Avoids having to use protective covers

HEAVY-DUTY

- Use of polycarbonate and stainless steel mounting hardware
- Resistant to corrosive agents (H₂S, HCl, sea spray,...)
- Durable housing

SPECIFICALLY ADAPTED OPTIONS

- Removable filters, interchangeable without opening the housing (which is dust-proof, condensation-proof and water-resistant)
- Splash guard
- Gas collector cone
- Mounting brackets
- Pitot tubes, floats, heating protective device, etc.
- Remote calibration cup



Enclosure	Polycarbonate housing
Function	4-20 mA output analog transmitter
Display	Highly visible backlight LCD display unit (optional, gas dependent)
Indicator lights (3-wire version only)	In operation: green color Failure / maintenance: orange color
Link	2 wires 9/10 screened cable – CTX 300 without display unit 3 wires screened cable – CTX 300 with display unit
Cable entry	PG9 cable gland (outer diameter 6 to 11 mm)
Power supply	15 to 32 V DC
Maximum Power Consumption	CTX 300 without display unit: 60 mA CTX 300 with display unit: 110 mA CTX 300 without display semiconductor versions: 100mA
Operating temperature	without display: -40°C to +50°C (-40°F to +122°F), sensor dependent with display: -20°C to +50°C (-4°F to +122°F), sensor dependent
Sealing	IP 54, NEMA 3 & 3R
Weight	520 g (18.2 oz)
Certification	EMC according to EN 50270:06 CSA  CLASS 812 86, CLASS 4812 06 (SIGNAL APPLIANCES) all versions except CO ₂ versions
Impedance	32 ohms max loop for CTX 300 with display unit and for semiconductors sensor versions 64 ohms max loop for CTX 300 without display unit