

DETECTORS / TRANSMITTERS

FLAMMABLE / TOXIC GAS **1100** Series

HELPING TO CREATE A SAFE AND CLEAN ENVIRONMENT
BY THE STATE OF THE ART TECHNOLOGIES

LED Digital Display

Pre - calibrated Remote Sensor

Explosion Proof Housing(Ex d IIC T6)

4 to 20mA Transmission

IR source Remote Calibration

Wide variety of the Sensors

Good Reliability



Let's create a safe environment

WISE CONTROL is an industry leader in detecting the potential dangers from Combustible and Toxic gases that pose a threat people and property.

We response to demands for safe and environment by developing and manufacturing quality detection instruments with advanced performance and reliability.

Series **is...**

GT-1100 • GX-1100 • GT/X-1100D

- Calibration and Sensor Sensitivity Check can be performed by Remote Calibrator.
- 7 segment 4 digit LED Display shows clear Measuring Value.
- The 1100 Series Detector consists of the Sensor, Terminal, TX pcb, Display pcb and Explosion Proof Housing.
- Remote or integrated cell. The GT/X-1100D version allows the cell to be used in remote mode up to 15 meters.
- Smart Sensor are made of 316L stainless steel, robust and resistance to corrosive agents. Pre-calibrated sensors can be disconnected by turning the head of the unit. The sensors, which are equipped with a printed circuit, can be calibrated outside hazardous areas on a bench.
- The Microprocessor in the PCB provides a linear 4 to 20 mA signal which corresponds to measuring range of



Series **Feature**

- Local 4 digit LED display
- Easy maintenance and calibration using Remote Calibrator
- Pre-calibrated Sensor (GX-1100, GT/X-1100D)
- Linear DC 4~20 mA Output can be connected to Various Kinds of receivers
- Explosion Proof Housing (Ex d IIC T6)
- Two conduit port are offered with ? NPT, PT or PF
- Fast Response
- Applied the state of the art technology provides excellent stability



Measuring Gases

Gases	Type of Sensor	Range(in ppm)	Accuracy	Life(month)	T(50)	TLV(ppm)
O ₂	Elxctrochemical	30,00%	+ / - 1.5%	28	10	-
CO	Elxctrochemical	100 / 300 / 1000	+ / - 1.5%	36	15	50
H ₂ S	Elxctrochemical	30,0 / 100 / 1000	+ / - 1.5%	36	15	10
NO	Elxctrochemical	100 / 300 / 1000	+ / - 1.5%	36	15	25
NO ₂	Elxctrochemical	10,0 / 30,0	+ / - 1.5%	24	20	-
SO ₂	Elxctrochemical	10,0 / 30,0 / 100	+ / - 1.5%	36	15	5
Cl ₂	Elxctrochemical	10,0	+ / - 1.5%	24	50	1
H ₂	Elxctrochemical	2000	+ / - 1.5%	24	50	-
HCl	Elxctrochemical	30,0 / 100	+ / - 1.5%	24	50	5
HCN	Elxctrochemical	10,0 / 30,0	+ / - 2%	24	30	10
HF	Elxctrochemical	10,0	+ / - 3%	18	50	3
NH ₃	Elxctrochemical	100 / 1000	+ / - 3%	24	50	25
ETO/PO	Elxctrochemical	30,0	+ / - 3%	36	50	50
O ₃	Elxctrochemical	1,00	+ / - 3%	18	40	0.1
PH ₃	Elxctrochemical	1,00	+ / - 3%	18	40	0.3
ClO ₂	Elxctrochemical	3,00	+ / - 2%	24	50	0.1
SiH ₄	Elxctrochemical	50	+ / - 3%	18	40	5
COCl ₂	Elxctrochemical	3	+ / - 3%	18	50	0.1
CH ₄		0 - 100% Vol	+ / - 1.5%	60	5	-
H ₂	Catharometer	0 - 100% Vol	+ / - 1.5%	60	5	-
NH ₃	Catalytic	0 - 5000	+ / - 1.5%	36	8	25
Flammable	Catalytic	0 - 100% Vol	+ / - 1.5%	60	5	-

SeriesOptional Items

- Remote calibrator (GR 2000)
 - Weather Protection Cover
 - 2" Yoke Mounting Bracket
 - Splash Guard
 - Calibration Gas
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Technical Characteristics

Detectors	GT-1100	GX-1100	GT/X-1100D
Measuring Gas	Flammable Gas	Toxic Gas	Flammable / Toxic Gas
Measuring Range	0 ~ 100% LEL	ppm	0 ~ 100% LEL / ppm
Detection Principle	Catalytic combustion	Electrochemical	Catalytic / chemical
Display	4 ½ digit LED	4 ½ digit LED	4 ½ digit LED
Calibration	IR Remote controller	IR Remote controller	IR Remote controller
Sampling	Diffusion	Diffusion	Diffusion
Power	18 to 30 VDC	18 to 30 VDC	18 to 30 VDC
Power Consumption	100 mA	25 mA	100 / 25 mA
Output Signal	4 - 20 mA	4 - 20 mA	4 - 20 mA
Load Impedance	600 Ω	250 Ω	250 Ω
Local Calibration	Yes	Yes	Yes
Explosion Proof	Ex d IIC T6	Ex d IIC T6	Ex d IIC T6
		Ex ia IIC T4	Ex ia IIC T4
Detector Housing	Aluminium Diecasting	Aluminium Diecasting	Aluminium Diecasting
Sensor Housing	SUS 316 L	SUS 316 L	SUS 316 L
Wiring Connection	PF 3/4"	PF 3/4"	PF 3/4"
Cable	3 Wire Shielded	2 Wire Shielded	2 Wire Shielded
Response Time	Less than 20 secs at T90	Depending on the Sensor	Depending on the Sensor
Zero/Span Drift	+/-3% offset / month	+/-3% offset / month	+/-3% offset / month
Expected Life	36 to 60 month	12 to 48 month	12 to 48 month
Temperature Range	-30 to 50° C	-25 to 55° C	-25 to 55° C
Humidity Range	Below 95% R.H.	Below 95% R.H.	Below 95% R.H.

▶ GT-1100



▶ GX-1100



▶ GT/X-1100D



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