Smart Diffusion Oxygen & Toxic Gas Detector
GTD-2000Tx

Features

- This detector is specialized for detecting oxygen and toxic gases.
- It is designed with an explosion-proof structure, ensuring there is no risk of secondary explosions.
- Equipped with a display for easy monitoring and calibration.
- HART communication is supported.
- Remote calibration and program settings can be configured using a magnetic bar.
- The calibration process is simple enough to be completed by a single operator.
- Compatible with explosion proof warning lights (GTL-100) attached to the detector.

Accessories

| Cable gland | GTL-100 | Rain cover | HART Module | Splash guard | Collecting cone |

Sensor Specification

Measuring method	Galvanic cell	Electrochemical cell		Semiconductor cell	Photo-Ionization Detector(PID)
Measuring gas	O2	O2	Toxic gas	VOC gas	VOC gas
Measruing range	*	*	*	*	*
Response time	< 15sec / 90% scale	< 15sec / 90% scale	Varies by gas	Varies by gas	Varies by gas
Material	SUS316	SUS316	SUS316	SUS316	SUS316

Detector Specification

Measuring type	Diffusion type
Accuracy	±3% / Full scale
Parameter control	Non intrusive control with a Magnet bar (Calibration, Maintenance)
Operation mode display	1-LED (Power)
Measuring value display	LCD display (Built in back light 2-Line, 8 Characters) / OLED type (Option)
Output signal	Analog : 4-20mA Analog output / Maintenance signal : 4mA / Calibration signal : 3mA / Fault signal : 0mA Digital : 2mA (HART 7, HART Device description language available, Option)
Material	Aluminium alloy or Stainless steel
Cable entry thread	Standard : PF 3/4"	Option : PF 1/2" , M20 x 1.5P , M25 x 1.5P , NPT 1/2" , NPT 3/4"
Mounting type	2" Pole mount, Wall mount
Operating temperature	-40℃ ~ 80℃
Operating humidity	5 ~ 99%.RH (Non-condensing)
Dimensions	136(W) x 176(H) x 110(D) mm
Weight	1.7Kg (Aluminium alloy) / 3.4Kg (Stainless steel)

Detector Certification

Explosion-Proof Certification	KCs	Korea Explosion Proof Certification	Ex tD A21 IP66 T85℃, Ex d IIC T6, T4
	ATEX	European Explosion Proof Certification	Ex db IIC Gb T6, T4
	IECEx	International Explosion Proof Certification	Ex db IIC Gb T6, T4
	NEPSI	China Explosion Proof Certification	Ex db IIC T6 Gb
	UL	U.S. Explosion Proof Certification	Class I, Division 1, Groups A,B,C,D
	PESO	India Explosion Proof Certification	Ex db IIC T6...T4 Gb
	TIIS	Japan Explosion Proof Certification	Ex db IIC Gb
	TRCU ex	Russian Explosion Proof Certification	1Ex d IIC T6/T4 Gb X / Ex tb IIIC T85℃/T135℃ X
	TS	Taiwan Explosion Proof Certification	Ex db IIC Gb T6/T4
	ECAS Ex	UAE Explosion Proof Certification	Ex db IIC Gb T6/T4
	FM	North America Explosion Proof Certification	AEx db IIC T6...T4 Gb

Classification Society Certification	KR	Korea Classification Society Certification	**Other Certifications**	HART	Communication Protocol Certification
	MED	European Classification Society Certification		SIL2	Safety Integrity Certification
	ABS	U.S. Classification Society Certification		CE(EMC)	European Electromagnetic Certification
	BV	France Classification Society Certification		CPA	China Measuring Instrument Certification
	DNV	Norwegian Classification Society Certification		–	Thailand Ministry of Energy Certification
	CCS	China Classification Society Certification		KC	Korea Electromagnetic Certification
	RS	Russian Classification Society Certification		PAC	Russia Measuring Instrument Certification
	LR	UK Classification Society Certification		CE(RoHS)	European Hazardous Substances Certification
	RINA	Italian Classification Society Certification		–	–