

GGA-70-1 | Zirconia O₂

In-situ

Technical Specification

Measured Component	O ₂
Measurement Principle	Zirconia (ZrO ₂)
Measuring Range	Min 0 ~ 25 / Max 0 ~ 100 %
Min. Measuring Unit	0.01 %
Zero Drift (168 hours)	< ±1 % FS
Span Drift (168 hours)	< ±1 % FS
Repeatability	< ±0.2 % FS
Linearity	< ±1 % FS
Response Time	< 5 seconds



System Component	Detector / Analyzer Panel / Calibration Gas Unit / Cables / Master Flange
Option	Detector Protector / Teflon Coated Detector / IP66 or NEMA 4X / Calibration Gas
Certificate & Approval	Type Approval (Korea) US EPA (USA) CPA, CCEP (China)

Feature	<p>01 Measures ionization reactions based on EMF changes between platinum (Pt) electrodes using zirconia principle, converted into oxygen concentrations</p> <p>02 Employs a K-type thermocouple for excellent linearity between temperature and EMF</p> <p>03 Maintains measurement accuracy through periodic automatic self-check cycles</p> <p>04 Utilizes an IC with built-in cold junction compensation (CJC) functionality</p> <p>05 Minimizes noise and protects heater lifespan with zero-crossing functionality</p> <p>06 Explosion-proof model available (GGA-70 Ex.)</p>
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Other Specification

Measurement Condition	Operating Temp.	-20 ~ +55 °C
	Operating RH	0 ~ 95 %RH
	Gas Temp.	< +800 °C
	Gas Pressure	-5 ~ 250 kPa
Communication	Analog Output	2 Channel, 4 ~ 20 mA 2 Channel, 1 ~ 5 VDC
	Digital Output	4 Channel
	Digital Input	2 Channel
	Display & Input Device	7 inch LCD Monitor (Touch Screen) / USB
	Interface	RS232, 422, 485 / LAN (Ethernet) / Hart
Dimension & Power Supply	Material	SUS 304
	Dimension	W 400 x D 200 x H 560 mm
	Weight	14 kg
	Enclosure Rating	IP 65 (IP 66)
	Voltage	110 / 220 VAC, 50 / 60 Hz
	Power Consumption	500 W

Detector	Material	SUS 316 L or SUS 316 Ti
	Length	0.2 m ~
	Weight	1.0 m : 10 kg / 1.5 m : 15 kg
	Heating Temp.	+750 °C
	Applicable Flange	50, 65, 80, 100 A / Screw
	Temp. Sensor	PT 1000 (Optional)
Calibration Gas Unit (Frame Type)	Material	SUS 304
	Dimension	W 1650 x D 340 x H 340 mm
	Weight	14 kg
	Operating Temp.	0 ~ +40 °C
Calibration Gas Unit (Panel Type)	Material	SUS 304
	Dimension	W 680 x D 350 x H 1650 mm
	Weight	35 kg (46 kg including base)
	Operating Temp.	-20 ~ +60 °C
Instrument Air Consumption	Analyzer	0.2 m ³ /h