



Contribute to OPEX reduction

ZR802G brings advantages such as self-diagnosis or reduced maintenance requirement, which promotes OPEX reduction, with user-friendly operation and inherited product reliability in addition to some improved functions to satisfy customer needs.

Sensor Self-diagnosis

Auto/Semi-auto diagnosis of sensor deterioration without calibration gas

Enhancement

Digital communications (HART 7, MODBUS),
Data logging

Intuitive Operation

Interactive HMI LCD touchscreen for easy operation

Reliability

Trend-graph proves measurement stability at calibration

Creating new value with industrial IOT (IIOT)

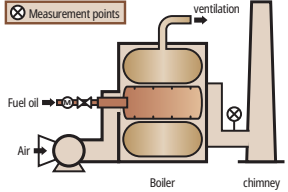
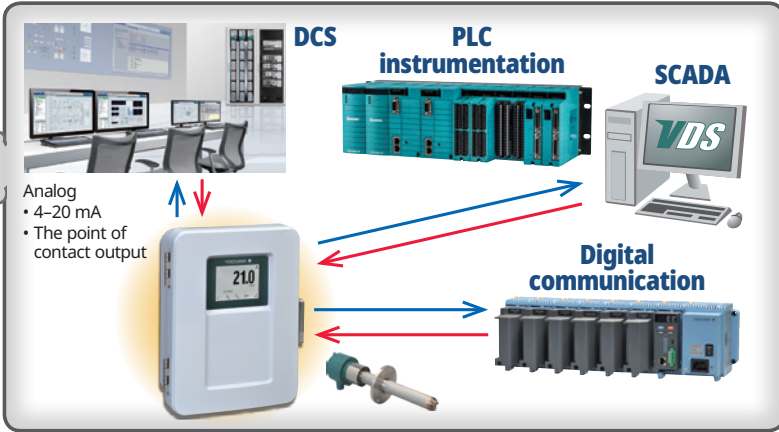
Manage even a large-scale plant, the subdivided plant with the minimum staff



- Daily life management
- Self-diagnosis information
- Detailed information at the time of the abnormality



Gateway way Radio (including the LTE)



Specification

Measurement Object	Oxygen analyzer: Oxygen concentration in combustion exhaust gas and mixed gas Humidity Analyzer: Water vapor (in vol%) in mixed gases (air and water vapor)
Measurement System	Zirconia System (Detector ZR22G)
Measurement Range	O ₂ : 0.01–100 vol% H ₂ O: 0–100 vol% Mixture ratio: 0–1.000 kg/kg
Analog Output	Out put points; Two points (input-output isolation) Out put signal; 4 to 20 mA DC linear or log can be selected (maximum load resistance 550 Ω) Out put range; O ₂ : Any setting between 0 to 5 through 0 to 100 vol% O ₂ H ₂ O: Any setting between 0 to 25 through 0 to 100 vol% H ₂ O
Analog Input	Input points; one point (for pressure compensation of O ₂ or temperature input of high temp humidity) Input signal; 4 to 20 mA DC (input resistance 250 Ω)
Contact Output	Contact output points; Four points (one is fail-safe, normally open) Contact capacity; 30 VDC 3 A or 250 VAC 3 A (load resistance) Action; Fault, High-high alarm, High alarm, Low-low alarm, Low alarm, Maintenance, etc.
Contact Input	Contact input points; Two points Contact capacity; Off-state leakage current 3 mA or less Action; Calibration gas pressure decrease alarm, Range switching, External calibration start, etc.
Digital Communication	HART7 (AO1, 250 to 550 Ω) Ethernet (Modbus TCP) RS-485 (Modbus RTU)

Calibration	Calibration method; Zero/Span calibration (Either zero or span can be skipped) Calibration mode; Auto, Semi-auto, Manual
Construction	Waterproof construction, NEMA/CSA TYPE 4X
Ambient Temperature	-20 to +55°C
Power Supply Voltage	100 to 240 VAC 50/60 Hz

Characteristics

Repeatability	O ₂ : ± 0.5% F.S. (0 to 5 vol% O ₂ or more and less than 0 to 25 vol% O ₂ range) O ₂ : ± 1% F.S. (0 to 25 vol% O ₂ or more and up to 0 to 100 vol% O ₂ range) H ₂ O: ± 1 vol%H ₂ O (Sample gas pressure: 2kPa or less)
Linearity	O ₂ : ± 1% F.S. (0 to 5 vol% O ₂ or more and less than 0 to 25 vol% O ₂ range) O ₂ : ± 3% F.S. (0 to 25 vol% O ₂ or more and up to 0 to 50 vol% O ₂ range) O ₂ : ± 5% F.S. (0 to 50 vol% O ₂ or more and up to 0 to 100 vol% O ₂ range) H ₂ O: ± 2 vol%H ₂ O (sample gas pressure: within ± 0.49 kPa) H ₂ O: ± 3 vol%H ₂ O (sample gas pressure: 2 kPa or less)
Drift	O ₂ : Both zero and span ± 2% F.S. /month H ₂ O: Both zero and span ± 3 vol%H ₂ O /month
Response Time	Response of 90% within 5 seconds.

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