

WDG-HPIIC FLUE GAS OXYGEN & COMBUSTIBLES ANALYZER

Close-coupled convective design for high particulate applications. Suitable for flue gas temperature up to 2800°F (1537°C). Completely field serviceable.



Max. Sample Dewpoint: 392°F (200°C)

Sample Pressure:
± 10 in. water gauge

Environment:
Ambient Temp.: -5°F to 160°F (-20°C to 71°C); -5°F to 140°F (-20°C to 60°C) with Div. 2 Option

Relative Humidity: 10% to 90%, non-condensing

Enclosure: Lift-off NEMA 3R, weather resistant, stainless steel. Optional hinged NEMA 4X (IP56), explosion-proof, purged, and floor mount versions available.

Power Requirements: 115 VAC, ±10%, 47-63 Hz, 600 VA max. (650 VA max. w/floor mount option); 230 VAC, ±10%, 47-63 Hz, 1850 VA max. (1900 VA max. w/floor mount option)

Calibration Gas Requirements: Use calibration gases @ 10 psig, 1.5 scfh (0.70 kg/cm², 0.7 L/min.)

O₂ Span Gas: Air or from 1.0% to 100% O₂, balance N₂

O₂ Zero Gas: 2% or from 0.1% to 10% O₂, balance N₂

Comb. Span Gas: 60 to 80% (ppm ranges) or 40 to 60% (% ranges) of the selected comb. recorder output range in certified mixture of CO + H₂, 3-4% O₂, balance N₂

Analog Output: Two isolated linear current outputs for oxygen and one for combustibles. Select O₂, combustibles, cell temperature, thermocouple mV or cell mV. Each output can be 4-20 mA, 0-20 mA, 20-4 mA or 20-0 mA and is fully scalable. Hold or track during calibration and select degree of damping. Maximum load 1200 ohms.

Contact Rating: 1 A, 30V max. non-inductive load, AC or DC

Diagnostics: Watchdog timer and service alarms. System test for A/D, RAM, EEPROM, and keypad. Display line 4 reserved for full text error and diagnostic messages. Twenty-entry event log.

Communications: RS-485, 2-way addressable

Environment:
Ambient Temp.: 14°F to 122°F (-10°C to 50°C)

Relative Humidity: 10% to 80%, non-condensing

Enclosure: Standard weatherproof NEMA 4 (IP 56) wall/panel mount. Optional GP (General Purpose) wall mount, GP 19" rack mount, GP panel mount, or stainless steel weatherproof NEMA 4X (IP 56) wall/panel mount. All are UL Listed for NEC Class I, Division 2 areas. Purged and explosion-proof versions also available.

Calibration: Oxygen cell lifetime extender. Calibrate or verify calibration. Store last calibration and verification data. Selectable calibration gas run time and process recovery time. Timed automatic calibration with optional Remote Calibration Unit.

Power Requirements: Nominal 115-230 VAC ±10%, 47-63 Hz, 75 VA max.

System Compliance:
EMC Directive: 2004/108/EC
Low Voltage Directive: 73/23/EEC

SENSOR

Principle of Operation: Zirconium oxide for net oxygen measurement.

Output Range:
Oxygen: From 0-1% to 0-100%
Combustibles: From 0-2,000 ppm to 0-10,000 ppm or from 0-1% to 0-5%

Accuracy:
Oxygen: ±0.75% of measured value or ±0.05% oxygen, whichever is greater
Combustibles: ±2% of full scale output range

Response:
Oxygen: 90% of a step change <30 seconds with 24" probe

Drift: < 0.1% of cell output per month; < 0.005% O₂ per month with 2% O₂ applied

Max. Flue Gas Temp. / Probe Type:
1300°F (704°C) / 316 SS
1875°F (1024°C) / 310 SS
2800°F (1537°C) / Ceramic

Probe Lengths: 24", 36" & 48" (0.60m, 0.91m & 1.21m)

SERIES 2000 CONTROL UNIT

Display: Four-line x 20-character vacuum fluorescent. Displays combinations of oxygen, % or ppm combustibles, time and date, cell temperature, user-programmable text, thermocouple mV or cell mV. Password protection, programmable pressure compensation and context-sensitive help are also provided.

THE RMOX[®]

SINGAPORE
Tel: 65 6484 2388. Fax: 65 6481 6588