

ATEX II 3 G WDG-IV UOP/RP

OXYGEN ANALYZER FOR UOP CCR PLATFORMING PROCESS

SENSOR

Principle of Operation: Close-coupled nitrogen-aspirated oxygen analyzer using zirconium oxide for net oxygen measurement.

Output Range: From 0-1% to 0-100%

Accuracy: $\pm 0.75\%$ of measured value or $\pm 0.05\%$ oxygen, whichever is greater.

Response Time: 90% of a step change <30 seconds

Aspirator Requirements: 4.72 to 9.4 L/min at 0.35 kg/cm² above process pressure

Probe Length/Type: 27" / Hastelloy® C - standard. Other lengths available.

Max. Sample Dewpoint: 200°C

Flow Switch: Integral flow sensor.

Sample Pressure:
Max. 60 psig (413.7 kPa)

Purge Flow During Rapid Exchange Period: 340 L/min.

Purge Flow During Normal Operation: 30.2 L/min.

Environment:
Ambient Temp.: -20°C to 60°C
Relative Humidity: 10% to 90%, non-condensing

Enclosure: NEMA 4X (IP56) hinged, stainless steel wall mount.

Calibration Gas Requirements:
Use calibration gases 3.16 kg/cm² or 0.35 kg/cm² above process pressure

O₂ Span Gas: Air

O₂ Zero Gas: 1% O₂, balance N₂

SYSTEM COMPLIANCE:

EMC Compliance: 2004/108/EC
Electronics Safety Compliance: 73/23/EEC
ATEX Directive 94/9/EC

TYPE APPROVAL (LCIE 05 ATEX 6140 X and LCIE 05 ATEX 6140 X / 01)

Series 2000 Control Unit	Ⓔ II 3 G EEx nA IIC T3	-10°C ≤ Ta ≤ 50°C
WDG...	Ⓔ II 3 G EEx nZ IIC T3	-20°C ≤ Ta ≤ 60°C

SERIES 2000 CONTROL UNIT

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

Analog Output: Two isolated linear current outputs. Select O₂, 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.

Alarms: Two independent oxygen alarms, each high or low selectable. One alarm can be allocated to % oxygen, calibrate or verify. Set relays to energize or de-energize on alarm. Flow alarm. Loss of purge alarm (on Sensor).

Contact Rating: 1A, 30V max. noninductive load, AC or DC. SPST type.



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Series 2000 Control Unit

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

Communications: RS-485, 2-way addressable.

Environment:

Ambient Temp: -10°C to 50°C
Relative Humidity: 0% to 80%, non-condensing

Enclosure: Weatherproof NEMA 4 (IP56). NEMA 4X (IP56) stainless steel available as option.

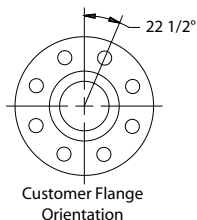
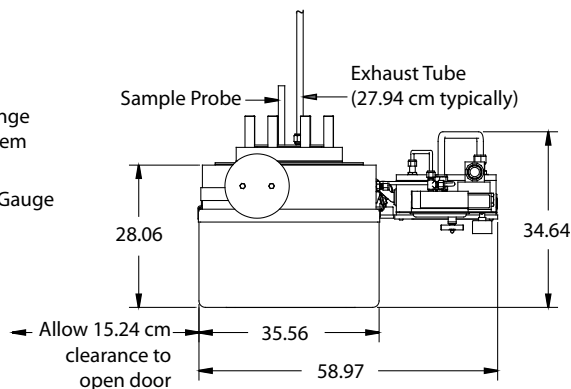
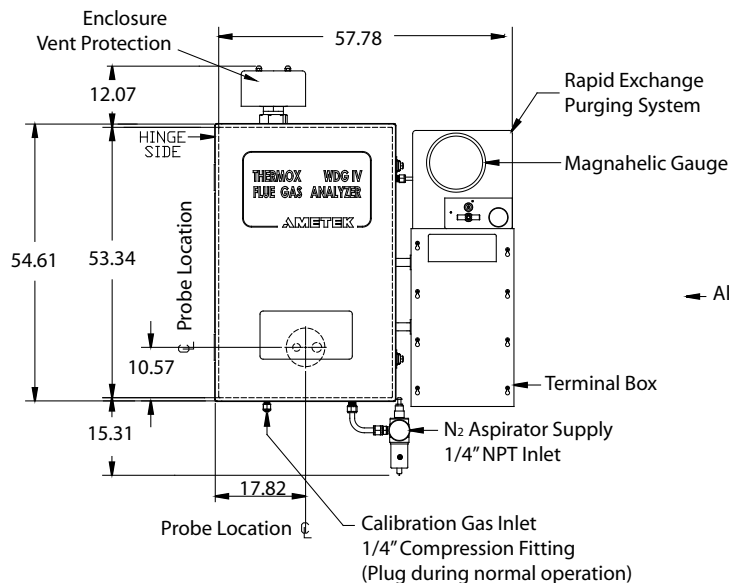
Calibration: Oxygen cell lifetime extender. Calibrate or verify calibration. Store last calibration and verification data. Selectable calibration gas run time and process recovery time.

ATEX II 3 G WDG-IV UOP/RP ANALYZER

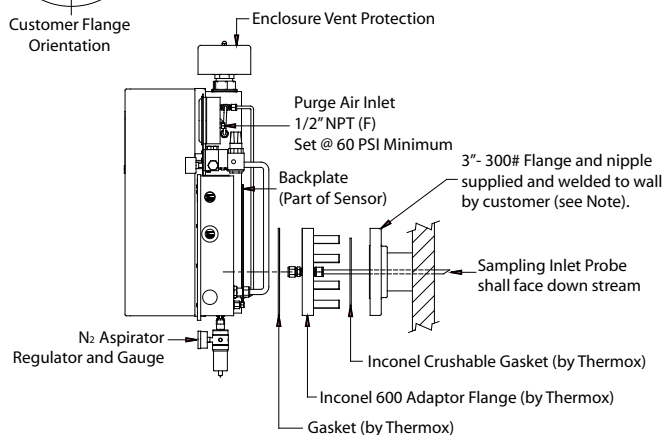
SENSOR

APPROX WEIGHT: 75 LB / 34 KG

INCHES
CM

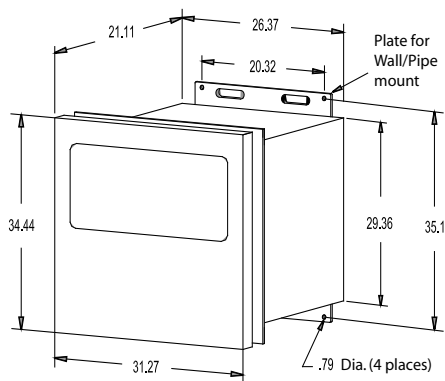


NOTE:
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SERIES 2000 CONTROL UNIT

NEMA 4 / NEMA 4X (CUTOUT: 31.18 cm H X 27.31 cm W)
APPROX WEIGHT: 12.7 KG



MODEL	POWER REQUIREMENTS
WDG UOP/RP	104-127 / 207-253 Vac, 700 / 1950 VA
Series 2000 Control Unit	104 - 253 Vac, 30 VA

NOTES:

1. All static performance characteristics are with operating variables constant.
2. System accuracy referenced to 0.1 to 10% calibrated range.
3. Response is to calibration gas.

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