

THE RIGHT ANALYZER FOR YOUR APPLICATION!

## ATEX II 3 G (Zone 2) 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:** ± 0.75% of measured value or ± 0.05% oxygen, whichever is greater.

**Response Time:** 63% of a step change <12 secs.; 90% of a step change <16 secs.

**Aspirator Requirements:** 4.72 to 9.4 L/min at 0.35 kg/cm<sup>2</sup> above process pressure

**Probe Length/Type:**

27" / Hastelloy® C - standard. Other lengths available.

**Max. Sample Dewpoint:** 200°C

**Sample Pressure:** Max. 4.22 kg/cm<sup>2</sup>

**Flow Switch:** Integral flow sensor.

**Purge Air:** Max. 340 L/min. (Rapid Exchange Purge System)

**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/cm<sup>2</sup> or 0.35 kg/cm<sup>2</sup> above process pressure

O<sub>2</sub> Span Gas: Air

O<sub>2</sub> Zero Gas: 1% O<sub>2</sub>, balance N<sub>2</sub>



ATEX WDG-IV UOP/RP

Series 2000 Control Unit

### 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 O<sub>2</sub>, 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.

**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.

**SYSTEM COMPLIANCE:**

EMC Compliance: 89/336/EEC  
Electronics Safety Compliance: 73/23/EEC  
ATEX Directive 94/9/EC

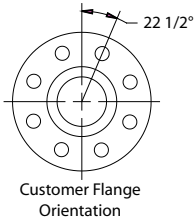
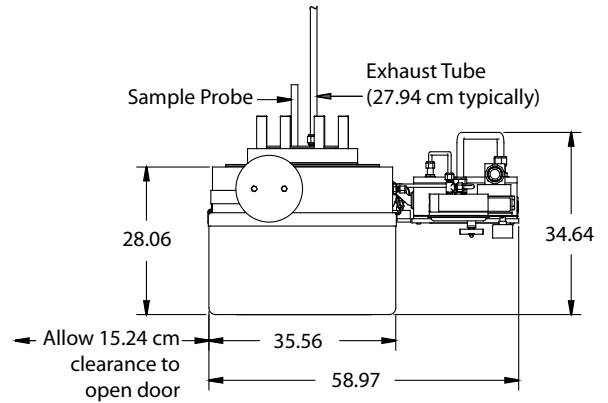
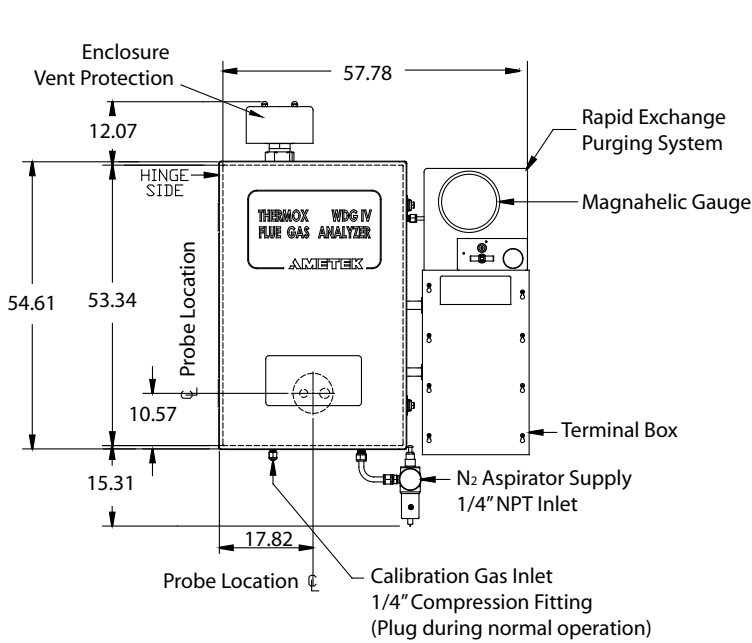
**TYPE APPROVAL (LCIE 05 ATEX 6140 X and LCIE 05 ATEX 6140 X / 01)**

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

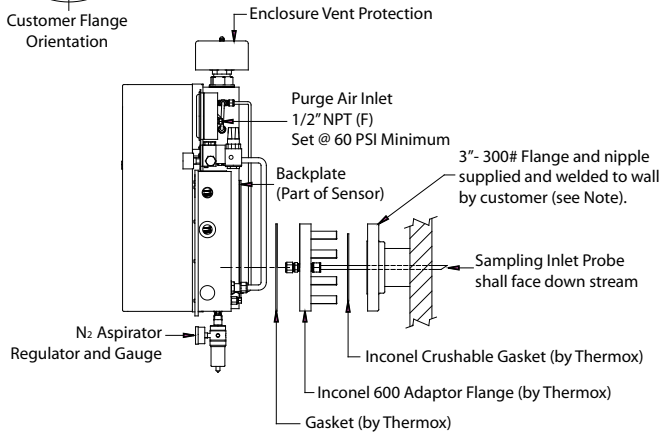
# SENSOR

APPROX. WEIGHT: 75 LB (34 KG)

DIMENSIONS IN CENTIMETERS



NOTE:  
The 3" nozzle shall be horizontal to 2" above horizontal when the process line is at operating temperature. It must drain to process to avoid corrosive deposit build-up. Insulate nozzle per UOP spec.



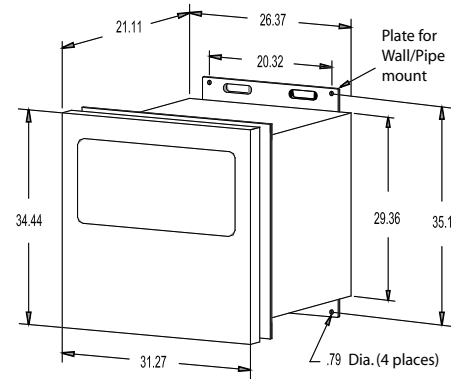
**NOTES:**

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

## 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

One of a family of innovative process analyzer solutions from AMETEK Process Instruments. Specifications subject to change without notice.

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