

RM CEM O₂/IQ

19" RACK MOUNT SMART OXYGEN ANALYZER

Extractive net oxygen analyzer for use in a wet or dry gas cem system with integral keypad and display.



SPECIFICATIONS

Principle of Operation: Zirconium oxide

Operating Range: 0.1-100% Oxygen

Display: Four-line by 20-character extended temperature Supertwist Nematic LCD (back-lit). Displays combinations of oxygen, cell temperature, user programmable text, thermocouple mV or cell mV. Password protection and programmable process pressure correction are also provided.

Accuracy: ±0.75% of reading or 0.05% oxygen, whichever is greater.

Response Time: < 4 seconds to 90% step response change; < 2 seconds to 63% step response change at 2 scfh (0.94 L/min.) from 2% to 20% O₂.

Repeatability: ±1% of reading or 0.1% absolute, whichever is greater

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

Max. Inlet Temp.: 204°C (400°F)

Sample Pressure: ± 2 psig max (0.14 kg/cm²)

Sample Flow: 2 to 15 scfh (0.94 to 7.08 L/min.)

Analog Output: Isolated linear current output. Select O₂, cell temperature, thermocouple mV or cell mV. The output can be 4-20 mA, 0-20 mA, 20-4 mA, or 20-0 mA, and is fully scalable. Hold and track during calibration. Maximum load 1100 ohms.

Alarm: Alarm can be set to oxygen, start of calibration, start of verification or both.

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

Diagnostics: Watchdog timer/ service alarm (trouble alarm). System test for A/D, RAM and EPROM. Twenty entry event log.

Communications: RS-485, RS-232 (IQ Links), HART® Option 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.

Environment:

Ambient Temp: 0°F to 140°F (-18°C to 60°C)

Operating Temp: -20°C to 70°C (See Note 1)

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

Enclosure: Indoor use only

Power Requirements: 115 VAC, 50-60 Hz, ±10%; 230 VAC, 50-60 Hz, ±10%; 100 VA max.

Calibration Gas Requirements: Use calibration gases at 4 scfh (2 L/min)

O₂ Zero Gas: 0.1-10% O₂, balance N₂

O₂ Span Gas: Minimum one decade above zero gas (10 times greater)

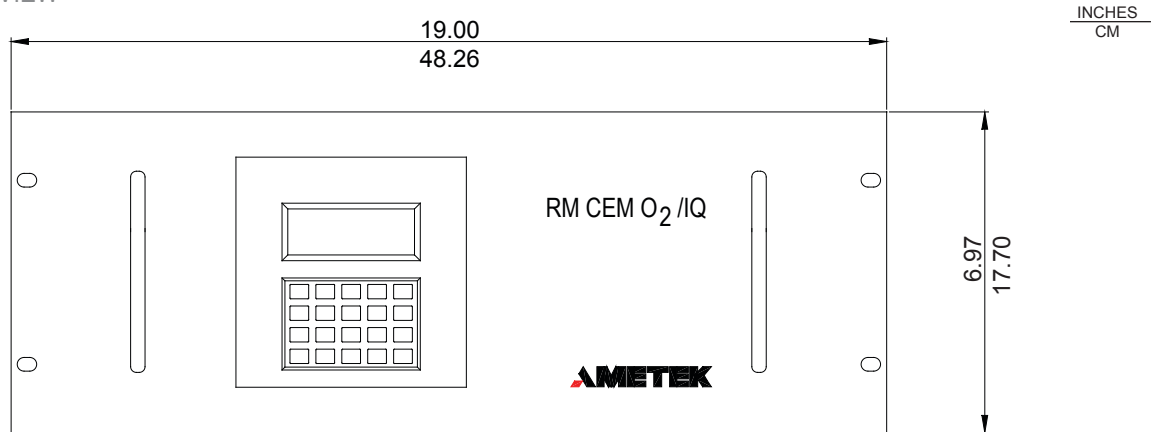
System Compliance:

EMC Directive: 2004/108/EC

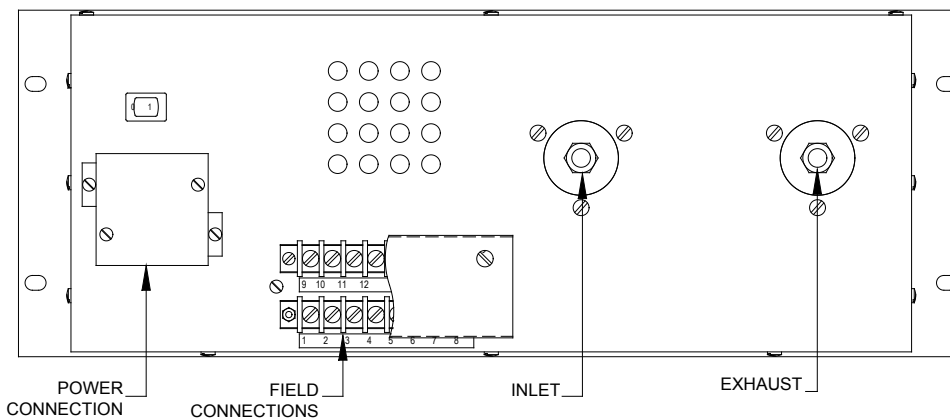
Low Voltage Directive: 73/23/EEC

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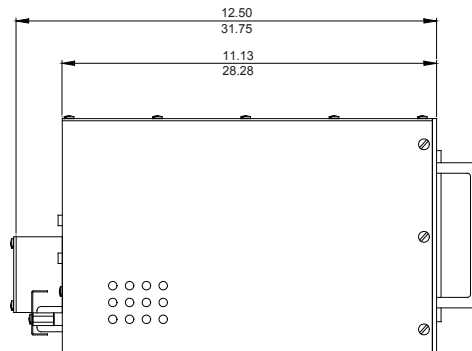
FRONT VIEW



REAR VIEW



SIDE VIEW



NOTES:

1. Operating temperature of electronics inside the electronics housing is measured by IQ Link, RS247 Web Enabled Remote System, Series 2000 Host, or Hart Communicator.
2. All static performance characteristics are with operating variables constant.
3. System accuracy referenced to 0.1 to 10% calibrated range.
4. Response is to calibration gas.

APPROX. WEIGHT: 17 LB (7.7 KG)

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Specifications subject to change without notice.

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