

Ozone monitor

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Process ozone monitor 465H

The model 465H is a microprocessor based high concentration ozone monitor for measuring ozone in process gas streams in water treatment, food processing, and research applications. The 465H has been designed to give accurate and stable readings over long time periods with little or no maintenance or calibration. The model 465H is available in a 19" rack mount or NEMA 4X wall mount enclosure.

The sensor module contained in the model 465H uses detectors which have a very narrow band of spectral sensitivity, eliminating the need for UV band pass filters which are subject to deterioration by UV or humidity. Two detectors are used: one for the ozone measurement, and the other to compensate for changes in UV lamp intensity. This unique design provides a sensor which will operate for extended periods without calibration or maintenance.

Built-in diagnostics provide warning signals in case operating parameters are out of range. Test values can be viewed while the model 465H is operating. These displays, warnings, and self-diagnostics, along with the modular design, allow maximum uptime. In addition, any function that can be set or monitored from the front panel can be remotely set or viewed through the bidirectional RS-232 port.



Advantages

- Standard one year warranty
- UV absorption method
- Microprocessor controlled
- Menu driven software
- Ranges 0-5 to 0-25% w/w
- Built-in diagnostics
- Self-check warning alarms
- Fast response times
- Minimal zero drift
- Programmable auto-zero function included
- Programmable concentration alarms
- Temperature and pressure compensation (standard)
- Optional ethernet



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Technical specification

Measurement principle	UV absorption (beer lambert law)
Ranges	0–5% w/w to 0–25% w/w; 0–100 g/Nm ³ to 0–400 g/Nm ³
Measurement units	% w/w, g/Nm ³
Accuracy	±1% of full scale
Precision/repeatability	± 0.5% of full scale
Display resolution	0.01% w/w, 0.1 g/Nm ³
Response time	<30 sec to 95%
Compensation	Pressure, temperature (NTP = 273.15K, 760 mmHg)
Gas inlet pressure range	3.0–30.0 psig
Gas flow rate	0.2–2.0 LPM
Temperature range	5 °C to 45 °C
Dimensions (H x W x D)	Rack Mount – 5.22" x 19" x 18.6" (133 x 483 x 473 mm) NEMA 4X – 19.5" x 15.59" x 6.90" (495 x 396 x 175 mm)
Weight	Rack Mount–13.3 lbs (6.0 kg); NEMA 4X–15.0 lbs (6.8 kg)
Power	110–240V~, 50/60Hz, 74W max
Analog output	0–5V or 4–20mA isolated output
Status outputs	System OK, invalid reading, UV lamp fault
RS-232 (optional RS-485)	57.6 Kbaud, DB-9 connector
Approvals	CE
Degree of protection (IP code)	IP65 (NEMA 4X)

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