



TELEDYNE INSTRUMENTS
Advanced Pollution Instrumentation
A Teledyne Technologies Company

MODEL **465L**

Single / Multi-Channel Industrial Hygiene Ozone Analyzer



- ▶▶ **UV Absorption Method**
- ▶▶ **Microprocessor controlled**
- ▶▶ **Menu driven software**
- ▶▶ **Lower detectable limit 3 ppb**
- ▶▶ **Programmable High and High-High alarm contacts**
- ▶▶ **Built-in diagnostics**
- ▶▶ **Self-check warning alarms**
- ▶▶ **Fast response times**
- ▶▶ **Minimal zero drift**
- ▶▶ **1, 3 and 6 stream versions available for safety monitoring**
- ▶▶ **Programmable concentration alarms**
- ▶▶ **Temperature and pressure compensation (standard)**
- ▶▶ **Optional Ethernet**

The Model 465L UV Photometric Ozone Monitor is an extremely stable analyzer, ideal for critical low-level ppm safety and process applications. Its calibration is NIST traceable and the included pressure and temperature compensation ensure high accuracy under all conditions.

The Model 465L is available in a 19" rack mount or NEMA 4X wall mount enclosure and can be purchased either as a single stream unit or as a multi-channel unit capable of monitoring up to six individual sample streams. The Model 465L has been designed to deliver excellent performance, high reliability and simple operation. Operating parameters can be easily set up in the field using the operator-friendly menu driven software.

Built-in diagnostics provide warning signals in case operating parameters are out of range. Test values can be viewed while the Model 465L 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 bi-directional RS-232 port.



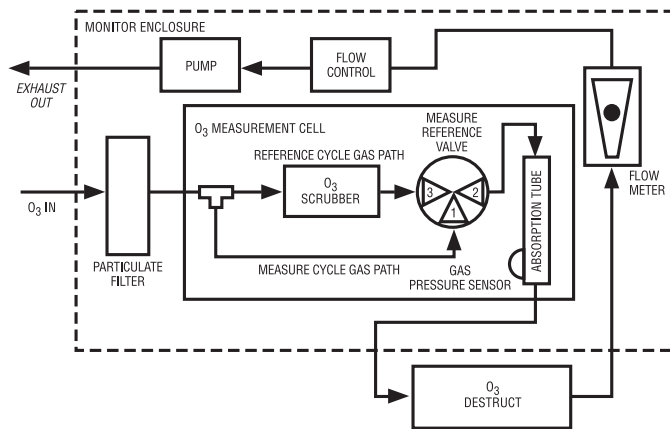
MODEL 465L

Single / Multi-Channel Industrial Hygiene Ozone Analyzer

Specifications

Measurement Principle:	UV Absorption (Beer-Lambert Law)	Weight:	Rack Mount – 13.6 lbs (6.17 kg) NEMA 4X – 15.1 lbs (6.85 kg)
Measurement Range:	From 0-1 ppm to 0-500 ppm	Power:	100 - 240VAC, 50/60 Hz
Units:	ppmv, ppbv, pphm, µg/m ³ , mg/m ³	Analog Output:	0-5V or 4-20mA isolated output
Precision / Repeatability:	±0.5% of full scale	High Current Relay Outputs:	Form C Dry Contact, 250VAC/10A (System OK, Global HI Alarm, Global HI-HI Alarm)
Display Resolution:	.001 ppm	Low Current Relay Outputs (3 or 6 channel, 3 per channel):	SPST Dry Contact, 50VDC/250mA Resistive Load (Channel ID, HI Alarm, HI-HI Alarm)
Accuracy:	±1% of full scale	Status Outputs:	System OK, Invalid Reading, Pneumatic Fault, UV Lamp Fault
Zero Drift:	.005 ppm/month, non-cumulative (.050 ppm/month Ranges >20 ppm)	Stream ID Outputs:	Channel 1 through 6
Lower Detectable Limit (LDL):	.003 ppm	RS-232 (Optional RS-485):	57.6 Kbaud, DB-9 connector
Response Time:	< 30 seconds to 95%	Approvals:	CE
Relay Mode:	Latching/non-latching, operator selectable	Degree of Protection:	IP65 (NEMA 4X)
Stream Selector Cycle Time:	1 min. to 120 min., operator selectable		
Sample Flow Rate:	0.8 liters/minute		
Operating Temperature Range:	5°C - 45°C		
Dimensions (HxWxD):	Rack Mount – 5.22" (133 mm) x 19" (483 mm) x 15.3" (388 mm) NEMA 4 – 16.01" (407 mm) x 15.77" (401 mm) x 8.02" (204 mm)		

Schematic



How to Order

Model 465L Single Stream Analyzer
Model 465L Three Stream Analyzer
Model 465L Six Stream Analyzer
include:

- Internal sample pump
- Temperature and pressure compensation
- Analog output
- Status output
- RS232 (MODBUS RTU)
- Ozone Destructor

Specify range:

- | | |
|-----------------------------------|------------------------------------|
| <input type="checkbox"/> 0-1 ppm | <input type="checkbox"/> 0-100 ppm |
| <input type="checkbox"/> 0-5 ppm | <input type="checkbox"/> 0-200 ppm |
| <input type="checkbox"/> 0-10 ppm | <input type="checkbox"/> 0-500 ppm |
| <input type="checkbox"/> 0-50 ppm | |

Specify output voltage:

- | | |
|-------------------------------|---------------------------------|
| <input type="checkbox"/> 0-5V | <input type="checkbox"/> 4-20mA |
|-------------------------------|---------------------------------|

Additional Options:

- Ethernet (MODBUS TCP/IP)
- Flow sensor option
- Rack Mount
- NEMA 4X Enclosure

Specifications subject to change without notice. M465L/3.08



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