



TELEDYNE INSTRUMENTS
Advanced Pollution Instrumentation
A Teledyne Technologies Company

MODEL **465L**

Single / Multi-Channel Industrial Hygiene Ozone Analyzer



- ▶▶ **Standard one year warranty**
- ▶▶ **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.

FREE Customer Support by telephone and email for the life of the instrument



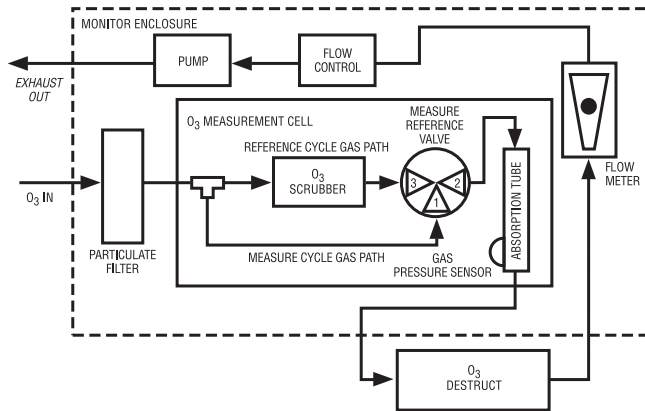
MODEL 465L

Single / Multi-Channel Industrial Hygiene Ozone Analyzer

Specifications

Measurement Principle:	UV Absorption (Beer Lambert Law)	Weight:	15.6" (396 mm) x 6.90" (175 mm)
Ranges:	0-1 ppm to 0-500 ppm	Power:	Rack Mount – 12.6 lbs (5.73 kg) NEMA 4X – 15.1 lbs (6.85 kg)
Measurement Units:	ppm, ppb, pphm, µg/m³	Analog Output:	0-5V or 4-20mA isolated output
Accuracy:	± 1% of Full Scale	High Current Relay Outputs:	Form C Dry Contact, 250VAC/5A (System OK, Global HI Alarm, Global HI-HI Alarm)
Precision/Repeatability:	± 0.5% of Full Scale	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)
Display Resolution:	0.001 ppm	Status Outputs:	System OK, Invalid Reading, Pneumatic Fault, UV Lamp Fault
Response Time:	<30 seconds to 95%	Stream ID Outputs:	Channel 1 through 6
Zero Drift:	.005 ppm/month (.050 ppm/month ranges >20 ppm)	RS-232 (Optional RS-485):	57.6 Kbaud, DB-9 connector
Lower Detectable Limit (LDL):	0.003 ppm	Approvals:	CE
Temperature Range:	5-45°C	Degree of Protection:	IP65 (NEMA 4X)
Relay Mode:	Latching/non-latching, operator selectable		
Stream Selector Cycle Time:	1 min. to 6 min., operator selectable		
Sample Flow Rate:	0.8 liters/minute		
Dimensions (H x W x D):	Rack Mount – 5.22" (133 mm) x 19" (483 mm) x 15.3" (388 mm) NEMA 4X – 16.01" (407 mm) x		

Schematic



How to Order

Model 465L Single Stream Analyzer

Model 465L Three Stream Analyzer

Model 465L Six Stream Analyzer includes:

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

Specify range:

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

Specify output voltage:

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

Additional Options:

- | |
|---|
| <input type="checkbox"/> Ethernet (MODBUS TCP/IP) |
| <input type="checkbox"/> Flow sensor option |
| <input type="checkbox"/> Rack Mount |
| <input type="checkbox"/> NEMA 4X Enclosure |

Specifications subject to change without notice. Printed documents are uncontrolled. SAL000021 B (DCN 5246) M465L/12/08/08.

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