



TELEDYNE INSTRUMENTS
Monitor Labs
A Teledyne Technologies Company

sensor-e®

UV Fluorescence SO₂ Analyzer TML50H (High Range)

**0-10 ppm to 0-5000
ppm, user
selectable**

**Dual ranges
and auto
ranging**

**Microprocessor
controlled for
versatility**

**Multi-tasking software allows viewing of test variables
while operating**

Continuous self checking with warning alarms

Ethernet and RS-232 ports for remote operation

Digital status outputs provide instrument condition

Adaptive signal filtering optimizes response time

Temperature & Pressure compensation

Internal Zero and Span check (optional)

**Internal data logging with 1 minute to 24 hour multiple
averages (over 500,000 records)**

Critical orifices provide flow stability

Sensor-e.com remote operation software



The sensor-e® SO₂ uses the proven UV fluorescence principle, coupled with state-of-the-art microprocessor technology to provide accurate and dependable measurements of low level SO₂. Exceptional stability is achieved with the use of an optical shutter to compensate for PMT drift and a reference detector to correct for changes in UV lamp intensity. A hydrocarbon “kicker” and advanced optical design combine to prevent inaccuracies due to interferences. The multi-tasking software gives real time indication of a large number of operational parameters and provides automatic alarms if diagnostic limits are exceeded.

All instruments of the sensor-e® series include an extensive built-in-data acquisition capability using the analyzer’s internal memory. This allows the logging of multiple parameters (over 500,000 records) including averaged or instantaneous values, calibration data and operating parameters such as flow, pressure and lamp intensity.

Stored data are easily retrieved through the RS-232 port via sensor-e.com software or from the front panel, allowing operations to perform predictive diagnostics and enhanced data analysis by tracking parameter trends.

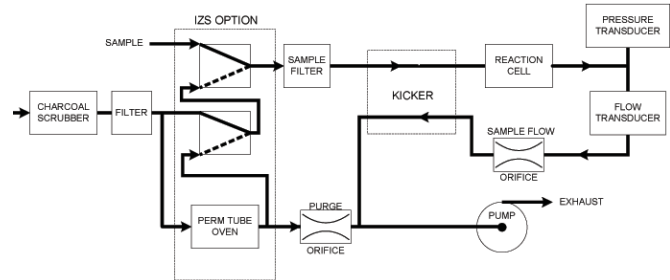
The sensor-e® SO₂ combines lighter weight, rugged construction, ease of use, powerful diagnostics, modular design and outstanding performance to yield the ideal tool for today’s air monitoring requirements.



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sensor^e[®]

**UV Fluorescence SO₂ Analyzer
 TML50H (High Range)**



SPECIFICATIONS

Model:	TML-50H
Ranges:	0-10 ppm to 0-5,000 ppm, full scale, user selectable Dual ranges and autoranging supported
Units:	ppm, mg/m ³
Zero Noise:	<0.05 ppm(RMS)
Span Noise:	<1.0% of reading above 10 ppm (RMS)
Lower Detectable Limit (LDL):	<0.1 ppm
Zero Drift:	<1 ppm/24 hours
Span Drift:	<0.5% reading/24 hours, 1% reading/7 days
Lag Time:	20 seconds
Response Time:	<30 seconds to 95%
Linearity:	1% of full scale
Sample Flow Rate:	700cm ³ /min ± 10%
Operating Temperature Range:	5 - 40°C

Dimensions (HxWxD):	7" (178 mm) x 17" (432mm) x 23.5" (597 mm)
Weight:	35 lbs (16kg)
Power:	100V, 115V, 220-240V, 50/60Hz
Analog Outputs:	Bi-polar, 10V, 5V, 1V, 0.1V, selectable
Recorder Offset:	±10%
Serial Port 1:	RS-232, DB-9M/RS485 optional
Serial Port 2:	Ethernet
Status (Digital):	8 outputs and 6 inputs (opto-isolated)
Current Output:	Specify up to three channels
Approvals:	Contact factory for current listing

NOTE: The values expressed above are in accordance with EPA definitions. All error specifications are based on constant conditions. Specifications exceed US EPA and Eignungsgeprüft requirements.

sensor-e[®] Fluorescent SO₂ Analyzer includes:

- * Selectable voltage (specify below)
- * Internal pump
- * Auto ranging and dual ranges
- * 5 micron filter
- * 8 isolated digital status outputs
- * 6 isolated digital inputs
- * Multi-drop RS-232 connection
- * Ethernet Port
- * Sensor-e.com software

Specify input AC voltages & frequency:

- 100V -115V 50HZ
 220V - 240V 60Hz

Specify output DC voltage:

- 10V 5V 1V 0.1V

Additional options:

- 4-20 mA output
 O₂ 0-25% paramagnetic
 CO₂ 0-20% NDIR

Accessories:

- RS-232 Cable
 Expendables Kit
 Spare Parts Kit
 Rack Mount Slides



**TELEDYNE
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