



**TELEDYNE  
MONITOR LABS**  
A Teledyne Technologies Company

**sensor<sup>e</sup>**<sup>®</sup>

## Paramagnetic O<sub>2</sub> Analyzer (TML70)

**Standard two  
year warranty**

**0-1% to 0-100%,  
user selectable**

**Dual ranges and  
auto ranging**



**Microprocessor controlled for versatility**

**Multi-tasking software allows viewing 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**

**Critical orifices provide flow stability**

**sensor-e.com remote operation software**

The TML70 uses the proven paramagnetic principle, coupled with state of the art microprocessor technology to provide accurate and dependable measurements of percent-level O<sub>2</sub>.

Paramagnetic technology is non-depleting, which means that there are no consumable parts, and ensures a consistent performance over time. The selectivity of the paramagnetic measurement for oxygen means that there is little or no interference from other common background gases.

The TML70 offers a stable and inherently linear measurement of oxygen, making it possible to calibrate the analyzer by checking only two points. There is no requirement for a reference gas during operation.

All of the sensor-e<sup>®</sup> series include an extensive built-in data acquisition capability using the analyzer's internal memory. This allows the logging of multiple parameters including averaged and instantaneous concentration values, calibration data and operating parameters such as flow and pressure.

Stored data are easily retrieved through the serial port or optional no-cost Ethernet port and viewed via our sensor-e.com software or from the front panel, allowing operators to perform predictive diagnostics and enhanced data analysis by tracking parameter trends.

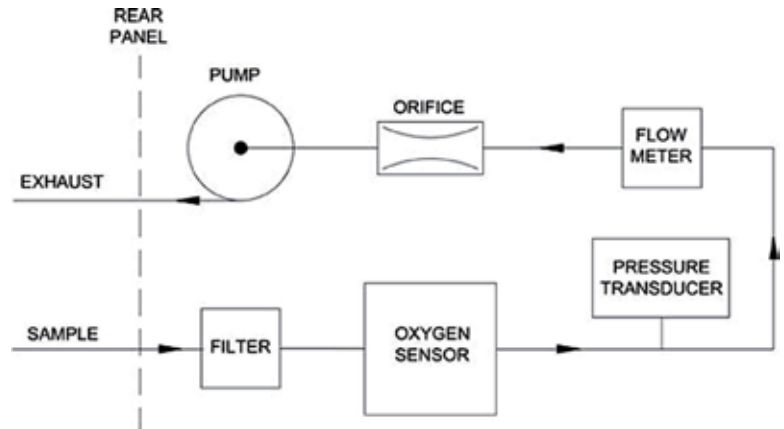
The TML70 combines light-weight, rugged construction, ease of use, powerful diagnostics, modular design and outstanding performance to yield the ideal tool for today's air monitoring requirements.



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**Paramagnetic O<sub>2</sub> Analyzer (TML70)**



**SPECIFICATIONS**

Model:	TML-70
Ranges:	0-1% to 0-100% user selectable. Dual ranges and auto-ranging supported
Zero Stability:	
Short Term:	< 0.1% O <sub>2</sub> in 24 hours
Long Term:	< 0.2% O <sub>2</sub> in 7 days
Span noise:	< 0.05% O <sub>2</sub>
Lower Detectable Limit (LDL):	0.1% O <sub>2</sub>
Lag time:	<10 seconds
Rise and Fall Time:	< 60 seconds to 95%
Linearity:	< ±0.1% O <sub>2</sub>
Repeatability:	< ±0.01% O <sub>2</sub>
Sample Flow Rate:	Max/Min 130ml ± 20ml/min
Operating Temperature Range:	5 - 40°C
Humidity Range:	0-95% RH

Pressure Range:	25-31 inches of mercury
Operating Temperature Range:	41-104° fahrenheit, 5 - 40° celsius,
Dimensions (HxWxD):	7" (178 mm) x 17" (432 mm) x 23.5" (597 mm)
Weight:	28 lbs (12.7 kg)
Power:	100V - 120V, 220V - 240V, 50/60 Hz
Analog Outputs:	10V, 5V, 1V, 100mV, user selectable
Recorder Offset:	±10%
Serial Outputs:	Format (RS232/485, Ethernet, Multi-drop) One RS-232 port (DB-9 male), one RS-232 or RS-485 User Selectable (DB-9 female)
Status (Digital):	8 outputs, 6 inputs (opto-isolated), 6 alarm outputs (optional)
Current Output:	Optional 4-20mA, select up to three channels

**sensor-e® O<sub>2</sub> Analyzers include:**

- \* Standard two year warranty
- \* Selectable voltage (specify)
- \* Internal pump
- \* Auto ranging and dual ranges
- \* 8 isolated digital status outputs
- \* Multi-drop RS-232 connection
- \* Ethernet Port
- \* Sensor-e.com software

**Specify inout AC voltages & frequency:**

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

**Specify output DC voltage:**

- 10V
- 5V
- 1V
- 0.1V

**Additional Options:**

- Rack mount brackets (19") with chassis slides
- Rack mount brackets only
- 4-20 mA output (specify up to three channels)
- Multi-drop RS-232 connection
- Ethernet port includes 7ft. CAT-5 cable (disables one serial port)

**Accessories:**

- RS-232 Cable
- Expendables Kit
- Spare Parts Kit

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Teledyne Monitor Labs, Inc. reserves the right to make changes in construction, design, specifications and/or prices without prior notice.

*For the most current information, please visit our web site: [www.teledyne-ml.com](http://www.teledyne-ml.com)*