TELEDYNE INSTRUMENTS
Monitor Labs
A Teledyne Technologies Company

sensor-e®

Total Reduced Sulfur TRS Analyzer (TML60)

Microprocessor controlled

Multi-tasking software allows viewing test variables while operating

Auto Ranging, Dual Range and remote range selection

Built-in self checks and diagnostic capabilities

Converter can be rack mounted

Ethernet and RS232 ports for remote operation

Digital status outputs provide instrument condition

Auto zero system

Adaptive signal filtering optimizes response time

Temperature and pressure compensation

User friendly operation and set-up

Sensor-e.com remote operation software

The sensor-e™ TRS analyzer provides a dependable, accurate and convenient method of measuring hydrogen sulfide or Total Reduced Sulfur. The sensor-e™ TRS analyzer converts sulfur gases into sulfur dioxide and measures concentration using flourescent technology.

The sensor-e™ TRS analyzer first draws sample gas into the analyzer which passes through a scrubber removing all traces of sulfur dioxide. The components are then converted to SO_2 and measured by flourescense. A sample and hold circuit provides continual analog outputs for each channel.

The sensor-e™ TRS also features “auto zero” which provides excellent zero stability.

The rugged construction of this analyzer is designed to perform with minimum attention. Regular maintenance is greatly simplified through the use of modular construction.

TRS is a designated pollutant and therefore regulated under the Clean Air Act.

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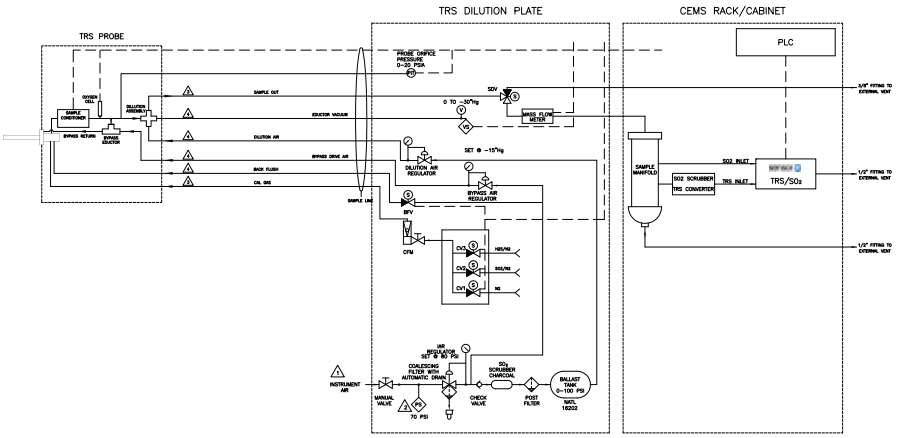

SPECIFICATIONS

Model:	TML-60
Ranges:	0-50 ppb to 0-10 ppm TRS, 0-10 ppm SO_2 full sale, user selectable Dual ranges and autoranging supported.
Units:	ppb, ppm
Zero Drift:	<0.5 ppb/24 hrs, 1 ppb/7days
Span Drift:	<0.5% full scale/24 hrs, 1% full scale/7 days
Zero Noise:	0.2 ppb (RMS)
Span Noise:	<0.5% of reading (RMS) above 50 ppb
Lower Detectable Limit (LDL):	<0.4 ppb
Lag Time:	20 seconds
Rise and Fall Time:	<120 seconds
Linearity:	1% of full scale
Sample Flow Rate:	650 cc/min ± 10%
Converter Temperature:	850°C (external)
SO_2 Scrubber Efficiency:	>98%

Dimensions (HxWxD):	7" (178 mm) x 17" (43.2mm) x 25" (635 mm)
Weight:	52 lbs (24.0kKg)
Power:	100V, 50/60Hz, 115V, 60Hz, 230 50Hz, 240V 50Hz, 250 Watts
Analog Outputs:	10V, 5V, 1V, 100 mv, selectable
Recorder Offset:	±10%
Serial Port 1:	RS-232, DB-9M/RS485 optional
Serial Port 2:	Ethernet, DB-9F
Status (Digital):	12 outputs (opto-isolated)
Current Output:	0-20 mA or 4-20mA isolated output, optional
Approvals:	CE

NOTE: The values expressed above are in accordance with EPA definitions. All error specifications are based on constant conditions.

HOW TO ORDER

sensor-e™ TRS Analyzers include:

* Readout in TRS or SO_2
* Internal pump
* Auto ranging and dual ranges
* 47mm particulate filter
* 8 isolated digital outputs, 6 inputs
* Multi-drop RS-232 connection
* Ethernet Port
* Sensor-e.com software

Selectable voltage/frequency:

- ☐ 100V/50hz
- ☐ 220V - 50hz
- ☐ 230V/50hz (CE)
- ☐ 240V/50hz
- ☐ 100V/60hz
- ☐ 115V/60hz
- ☐ 220V/60hz

Selectable output voltage:

☐ 10V ☐ 5V ☐ 1V ☐ 100mV

☐ **0-20mA or 4-20 mA non-isolated**

Particulate Filter:

☐ **47mm (standard)** ☐ **67mm (optional)**

Additional Options:

- ☐ Time shared switching of TRS/SO_2 includes sample and hold providing separate analog outputs for TRS and SO_2
- ☐ Rack Mount (19") with chassis slides
- ☐ Rack Mount only
- ☐ Isolated 0-20mA or 4-20mA output

Accessories:

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

TELEDYNE INSTRUMENTS

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