



# Model 100A Sulfur Dioxide (SO<sub>2</sub>) Analyzer

## Specifications

Ranges:	0-50 ppb to 0-20,000 ppb full scale, user selectable Dual ranges and auto ranging supported
Units:	ppb, ppm, µg/m <sup>3</sup> , mg/m <sup>3</sup>
Zero Noise:	<0.2 ppb
Span Noise:	<0.5% of reading (above 50 ppb)
Lower Detectable Limit (LDL):	0.4 ppb
Zero Drift:	<0.5 ppb/24 hours, 1ppb/7 days
Span Drift:	<0.5% reading/24 hours, 1% reading/7 days
Lag Time:	20 seconds
Rise and Fall Time:	<120 seconds to 95%
Linearity:	1% full scale
Precision:	0.5% of reading
Sample Flow Rate:	700cc/min ±10%
Operating Temperature Range:	5 - 40°C (with EPA Equivalency)
Dimensions (HxWxD):	7" (178 mm) x 17" (432 mm) x 23.5" (597 mm)
Weight:	45 lbs (20.5 kg)
Power:	100V 50/60 Hz, 115V 60Hz, 220V 50/60Hz, 230V 50Hz, 240V 50Hz, 250 Watts (analyzer)
Approvals:	US EPA, Eignungsgeprüft, CE
Analog Outputs:	Bi-Polar, 10V, 5V, 1V, 100 mV, selectable
Recorder Offset:	±10%
RS-232:	Standard, DB-9 Connector
Status (Digital)	12 outputs from optoisolator, included with standard configuration
Current Output:	0-20mA or 4-20mA isolated output, optional

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.

## How To Order

### Model 100A Ambient Level SO<sub>2</sub> Analyzer includes:

- Selectable voltage (specify below)
- Internal pump
- Auto ranging and dual ranges
- 37mm or 47mm particulate filter
- 12 isolated digital status outputs
- Bi-directional RS-232

#### Specify voltage/frequency:

- |   |                                    |
|---|------------------------------------|
| <input type="checkbox"/> 100V/50hz      | <input type="checkbox"/> 100V/60hz |
| <input type="checkbox"/> 220V/50hz      | <input type="checkbox"/> 115V/60hz |
| <input type="checkbox"/> 230V/50hz (CE) | <input type="checkbox"/> 220V/60hz |
| <input type="checkbox"/> 240V/50hz      |                                    |

#### Specify output voltage:

- 10V    5V    1V    100mV  
 0-20mA or 4-20mA non-isolated

#### Particulate filter:

- 37mm (standard)    47mm (optional)

### Additional Options:

- Rack Mount (19") with chassis slides
- Rack Mount only
- Isolated 0-20mA or 4-20mA output
- Multi-drop RS-232 connection
- NOx optical filter (recommended for high NOx applications)

#### Calibration Valves:

- TFE Valves for selection of customer-supplied zero and span gas
- Internal zero and permeation tube oven for calibration check. Requires perm tube:

#### Accessories:

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



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