



Model T100H High Range UV Fluorescence SO₂ Analyzer

The Model T100H $\rm SO_2$ analyzer uses the proven UV fluorescence principle with the high measurement ranges and interferent rejection needed for extractive source monitoring. The Model T100H provides a simple but precise solution for a broad range of CEM and stack testing applications,

The instrument design provides minimal quenching by $\rm O_2$ or $\rm CO_2$ and less than a 0.1% response to water in the sample. Additionally, special optical filtering reduces the effects of NO interference.

All T Series instruments offer an advanced color display, capacitive touch screen, intuitive user interface, flexible I/O, and built-in data acquisition capability. All instrument set up, control and access to stored data and diagnostic information is available through the front panel, or via RS232, Ethernet, or USB com ports either locally or by remote connection using the included APlcom™ software.

- Ranges: 0-10 ppm to 0-5,000 ppm, user selectable
- Dual ranges and auto ranging
- Large, vivid, and durable color graphics display with touch screen interface
- Ethernet, RS-232, and (optional) USB com ports
- Front panel USB connections for peripheral devices and firmware upgrades
- 8 analog inputs (optional)
- Adaptive signal filtering optimizes response time
- Temperature & pressure compensation
- >> Fast response (<30 seconds to 95%)
- Comprehensive internal data logging with programmable averaging periods
- Ability to log virtually any operating parameter
- Two-year warranty

Specifications

General Ranges: Min: 0-10 ppm Full scale Max: 0-5,000 ppm Full scale (selectable, dual ranges and auto ranging supported) Measurement Units: ppm, mg/m³ (selectable) Zero Noise: 0.1 ppm (RMS) < 1% of reading (RMS) above 10 ppm Span Noise: Lower Detectable Limit: 0.2 ppm Zero Drift: < 1 ppm/24 hours < 0.5% of full scale/24 hours Span Drift: Lag Time: 5 seconds < 30 seconds to 95% Rise and Fall Time: Linearity: 1% of full scale 0.5% of reading above 10 ppm Precision: 700 cm³/min ±10% Sample Flow Rate: **Electrical Specifications** Power Requirements: 100V-120V, 220V-240V, 50/60 Hz Analog Output Ranges: 10V, 5V, 1V, 0.1V, (selectable) Recorder Offset: ±10% **Communication Specifications** Included I/O: 1 x Ethernet: 10/100Base-T 2 x RS232 (300-115,200 baud) 2 x USB device ports 8 x opto-isolated digital outputs 6 x opto-isolated digital inputs 4 x analog outputs Optional I/O: 1 x USB com port 1 x RS485 8 x analog inputs (0-10V, 12-bit) 4 x digital alarm outputs Multidrop RS232 3 x 4-20mA current outputs **Physical Specifications** Operating Temperature Range: 5 - 40°C Dimensions (HxWxD): 7" x 17" x 23.5" (178 x 432 x 597 mm) Weight: Analyzer: 31 lbs (16 kg)

External pump: 15 lbs (7 kg)

How to Order

| Model T100H i | ncludes: | |
|--|-----------------|--|
| ☐ Two year warrant | .y | |
| ☐ External pump or internal pump (optional) | | |
| ☐ Dual ranges and auto ranging | | |
| ☐ 47mm diameter particulate filter | | |
| 8 isolated digital outputs | | |
| ☐ 6 isolated digital inputs | | |
| ☐ RS-232 ports ☐ Ethernet port | | |
| ☐ USB ports for peripheral devices | | |
| ☐ APIcom [™] remote control | | |
| software | | |
| ☐ Select AC input v | | |
| □ 100V - 120V | | |
| □ 220V - 240V | | |
| ☐ Select DC output☐ 10V | voitage □ 5V | |
| | □ 0.1V | |
| | | |
| Calibration Options: Ambient zero and ambient span | | |
| ☐ Ambient zero and 2 ambient span | | |
| | | |
| Mounting Options: ☐ Rack mount brackets with chassis | | |
| slides | | |
| ☐ Rack mount brackets only | | |
| ☐ Handle | | |
| I/O Options: | | |
| 4-20mA outputs (up to three channels) | | |
| ☐ USB com port | | |
| ☐ 8 Analog Inputs | | |
| ☐ Multi-drop RS232 | | |
| ☐ RS485 | | |
| Other Options: | | |
| ☐ Paramagnetic O ₂ Sensor | | |
| ☐ CO₂ Sensor☐ Hydrocarbon kicker | | |
| | | |
| ☐ Concentration alarm relays | | |

☐ Expendables kit

The values expressed above are in accordance with EPA definitions. All error specifications are based on constant conditions. Specifications subject to change without notice.

Printed documents are uncontrolled. SAL000040A (DCN 5815) T100H/10.25.10



9480 Carroll Park Drive ■ San Diego, CA 92121-5201 Ph. 858-657-9800 Fax 858-657-9816 Email api-sales@teledyne.com For more information about the Teledyne API family of monitoring instrumentation products, call us or visit our website at

www.teledyne-api.com

