The Model T100H SO₂ 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 O₂ or CO₂ 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 APIcom™ 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 (user selectable), dual ranges and auto ranging supported

- **Measurement Units:** ppm, mg/m³ (selectable)
- **Zero Noise:** 0.1 ppm (RMS)
- **Span Noise:** < 1% of reading (RMS) above 10 ppm
- **Lower Detectable Limit:** 0.2 ppm
- **Zero Drift:** < 1 ppm/24 hours
- **Span Drift:** < 0.5% of full scale/24 hours
- **Lag Time:** 5 seconds
- **Rise and Fall Time:** < 30 seconds to 95%
- **Linearity:** 1% of full scale
- **Precision:** 0.5% of reading above 10 ppm
- **Sample Flow Rate:** 700 cm³/min ±10%

### 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)
  Multidrop RS232
  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
  - 3 x 4-20mA current outputs

### Physical Specifications

- **Operating Temperature Range:** 5 - 40°C (with EPA Equivalency)
- **Dimensions (HxWxD):** 7” x 17” x 23.5” (178 x 432 x 597 mm)
- **Weight:** 35.7 lbs (16.2 kg)

---

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

Specifications exceed US EPA and Eignungsgesprüft requirements. Specifications subject to change without notice. Printed documents are uncontrolled.

---

**Model T100H includes:**
- Two year warranty
- External pump
- Dual ranges and auto ranging
- 47mm diameter particulate filter
- 8 isolated digital outputs
- 6 isolated digital inputs
- RS-232 ports
- Multi-drop RS232
- Ethernet port
- USB ports for peripheral devices
- APiCom™remote control software
- Select AC input voltage:
  - 100V - 120V
  - 220V - 240V
- Select DC output voltage:
  - 10V
  - 5V
  - 1V
  - 0.1V

**Mounting Options:**
- Rack mount brackets with chassis slides
- Rack mount brackets only

**I/O Options:**
- 4-20mA outputs (up to three channels)
- USB com port
- 8 Analog Inputs
- RS485

**Other Options:**
- Concentration alarm relays
- Consumables kit
- O₂, 0-25% Paramagnetic sensor
- CO₂, 0-20% NDIR