



Model T101 UV Fluorescence H₂S Analyzer

The Model T101 H₂S analyzer uses the proven UV fluorescence principle to measure hydrogen sulfide at levels commonly required for ambient air monitoring.

The Model T101 is equipped with an internally mounted catalytic converter set at 315°C to convert H_2S to SO_2 . A switching mode alternately measures H_2S and SO_2 while showing both readings concurrently on the front display.

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: 0-50 ppb to 0-10 ppm H₂S and up to 20 ppm SO₂, user selectable
- » Independent 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
- Auto zero system
- Comprehensive internal data logging with programmable averaging periods
- Ability to log virtually any operating parameter
- Two-year warranty

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Specifications

General Ranges: H₂S Min: 0-50 ppb Full scale Max: 0-10 ppm Full scale Up to 0-20 ppm Full scale (selectable, independent ranges and auto ranging supported) Measurement Units: ppb, ppm, µg/m³, mg/m³ (selectable) Zero Noise: < 0.2 ppb (RMS) < 0.5% of reading (RMS) above 50 ppb Span Noise: Lower Detectable Limit: Zero Drift: < 0.5 ppb/24 hours Span Drift: < 0.5% of full scale/24 hours Lag Time: 20 seconds Rise and Fall Time: < 120 seconds to 95% Linearity: 1% of full scale Precision: 0.5% of reading above 50 ppb Sample Flow Rate: 650 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-1
	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:	41 lbs (18.3 kg)

How to Order

Model T101 includes: ☐ Two year warranty ☐ Internal pump or external pump (optional) ☐ Independent ranges and auto ☐ 47mm diameter particulate filter ☐ 8 isolated digital outputs ☐ 6 isolated digital inputs ☐ RS-232 ports ☐ Ethernet port ☐ USB ports for peripheral devices ☐ APIcomTM remote control

SOILVVaiC			
☐ Select AC input voltage			
□ 100V - 120V	□ 50Hz		
□ 220V - 240V	□ 60Hz		
☐ Select DC output voltage			
□ 10V	□ 5V		
□ 1V	□ 0.1V		

Calibration Options:

	Ambient zero and ambient spar
	Zero scrubber and internal spar
	source (IZS)

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:

- u. o. o. p. u. o. u. o.
☐ NO optical filter (Recommended
for high NO_X applications.)
☐ 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. SAL000042A (DCN 5815) T101/11.18.10



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For more information about the Teledyne API family of monitoring instrumentation products, call us or visit our website at

www.teledyne-api.com

