



The Model T100U Trace-Level UV Fluorescence SO₂ Analyzer



The Model T100U analyzer achieves low level SO₂ measurements using the proven UV fluorescence principle and advanced electronics. The T100U combines high sensitivity with a wide dynamic measurement range, making it ideal for ambient air quality and other low-level applications.

— With NumaView™ premium T Series software —

- Large, vivid, and durable color touchscreen display
- Lifetime technical support by phone and email
- All other T Series instrument platform features
- Standard two-year warranty



T100U Specifications

■ Ranges	Min: 0-5 ppb full scale Max: 0-20,000 ppb full scale (selectable, dual ranges)
■ Measurement Units	ppb, ppm, $\mu\text{g}/\text{m}^3$, mg/m^3 (selectable)
■ Zero Noise	25 ppt (RMS)
■ Span Noise	0.5% of reading (RMS) above 5 ppb
■ Lower Detectable Limit	50 ppt
■ Zero Drift	< 0.2 ppb/24 hours
■ Span Drift	< 0.5% of full scale/24 hours
■ Lag Time	30 seconds
■ Rise/Fall Time	< 140 seconds to 95%
■ Linearity	1% of full scale
■ Precision	0.5% of reading
■ Sample Flow Rate	650 cm^3/min $\pm 10\%$
■ Power Requirements	100V-120V, 220V-240V, 50/60 Hz
■ Analog Output Ranges	10V, 5V, 1V, 0.1V (selectable)
■ Recorder Offset	$\pm 10\%$
■ 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
■ Operating Temperature Range	5 - 40°C (with US EPA Equivalency)
■ Dimensions (HxWxD)	7" x 17" x 23.5" (178 x 432 x 597 mm)
■ Weight	45 lbs (20.5 kg)
■ Certifications	US EPA: EQSA-0495-100

Specifications subject to change without notice.
All specifications are based on constant conditions.



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

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(DCN 8062) 01.10.19

