



Model T802 Paramagnetic O₂ Analyzer

The Model T802 O_2 uses the proven paramagnetic measurement principle, coupled with state of the art microprocessor technology, to provide accurate and dependable measurements of Percent-Level O_2 .

Paramagnetic technology is non-depleting, which means that there are no consumable parts, and ensures a consistent performance over time. The selectivity of the paramagnetic measurement for oxygen means that there is little or no interference from other common background gases. The T802 offers a stable and inherently linear measurement of oxygen, making it possible to calibrate the analyzer by checking only two points. There is no requirement for a reference gas during operation.

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.

- O₂ Range: 0-1% to 0-100%, 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
- Comprehensive internal data logging with programmable averaging periods
- Ability to log virtually any operating parameter
- >> Two-year warranty

Specifications

General Ranges: Min: 0-1% Full scale Max: 0-100% Full scale (selectable) Zero Noise: < 0.02% (RMS) Span Noise: < 0.05% of reading (RMS) Lower Detectable Limit: < 0.04 % Zero Drift: < ±0.02%/24 hours $< \pm 0.05\%/7$ days Span Drift: $< \pm 0.1\%/7 \text{ days}$ Accuracy: $< \pm 0.1\%$ $< \pm 0.1\%$ Linearity: Temperature Coefficient: < ± 0.01% per degree C Rise and Fall Time: < 60 seconds to 95% Flow Rate: 120ml ±20ml/min Humidity Range: 0-95% RH Pressure Range: 25-31 in Hg **Electrical Specifications** Power Requirements: 100V-120V, 220V-240V, 50/60 Hz 10V, 5V, 1V, 0.1V (selectable) Analog Output Ranges: 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 comport 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: 28 lbs (12.7 kg)

How to Order

Model T802 includes:			
	☐ Two year warrant ☐ Internal pump (optional) ☐ Dual ranges and a ☐ 47mm diameter p ☐ 8 isolated digital o ☐ 6 isolated digital ir ☐ RS-232 ports ☐ Ethernet port ☐ USB ports for per ☐ APlcom TM remote software ☐ Select AC input vo ☐ 100V - 120V	auto ranging particulate fi putputs nputs ipheral devi e control	lter
	☐ 220V - 240V [☐ Select DC output ☐ 10V [☐	□ 60Hz	
Mounting Options: ☐ Rack mount brackets with chassis slides			
	☐ Rack mount brac☐ Handle	kets only	
	I/O Options: 4-20mA outputs (up to three channels) USB com port 8 Analog Inputs Multi-drop RS232 RS485		
	Other Options: Internal pump CO ₂ Sensor Concentration als		

☐ 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. SAL000066A (DCN 5815) T802/11.24.10



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

