

3000RS Series

Oxygen Analyzers



- ▶ Trace or Percent Oxygen Analysis
- ▶ Touchscreen Color LCD Displays Reading and Key Parameters
- ▶ Integral MEMS Flow Sensor
- ▶ 316 Stainless Steel Tubing and Fittings
- ▶ Auto-Calibration and Remote Calibration Ready (Integral Valves Optional)
- ▶ EMI/RFI Shielded

Rugged Construction

The 3000RS Series represents Teledyne's benchmark online oxygen analyzer platform in its smallest, yet most powerful form factor yet. The 3000RS Series analyzers are available with a micro-fuel cell for trace or oxygen percent analysis.

A front panel dimension of approximately 4.3"W x 5.1"H (109 x 129 mm) allows for mounting of up to four (4) RS Series analyzers in a single 19-inch 3U chassis. Key parameters are displayed on the 3.5" touchscreen color LCD. All gas connections and I/O are accessible via the rear panel.



Micro-Fuel Cell

Excellent for ppm or percent detection, micro-fuel cells absorb and react with oxygen to generate a linear electrical signal proportional to O_2 concentration. They are suitable for operation in a variety of backgrounds, are insensitive to changes in flow and are maintenance-free. Teledyne's patented InstaTrace sensors shield the sensing membrane from high ambient oxygen exposure during installation, resulting in a much faster initial recovery time to low ppm levels.





	3000RS-P	3000RS-T
Sensor	Micro-Fuel Cell	
Ranges	0-1% to 0-100%	0-10 ppm to 0-10,000 ppm (0-1 ppm to 0-10,000 ppm for -XL option)
Approvals	CE Marked	
Repeatability	1% FS	
Linearity	1% FS	
Response Time	< 10 seconds	< 60 sec for 0-10 ppm range < 10 sec for 0-1,000 ppm range < 100 sec for 0-1 ppm range (-XL only)
Temperature	32° to 122°F (0° to 50°C)	A-Class Sensor: 32° to 104°F (0° to 40°C) B-Class Sensor: 32° to 122°F (0° to 50°C)
Inlet Flow	1 - 2 SCFH (0.5 - 1.0 SLPM)	
Display	4-20 mADC (isolated) or 0-1 VDC analog outputs 1 x system fault alarm, Form-C relay contact 2 x concentration alarms, Form-C relay contact 4-20 mADC (isolated) or 0-1 VDC range ID 4 x Form-A (normally open) range ID contacts Profibus-DP and RS232 communications	
Gas Connections	1/8" compression fittings for all connections	
Voltage	24 VDC (optional 100-240 VAC, 50/60 Hz with AC adapter)	
Power	10 W Nominal	
Dimensions	4.3"W x 5.1"H x 17.8"L (109 x 129 x 452 mm)	

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



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