

3000ZA2G Series

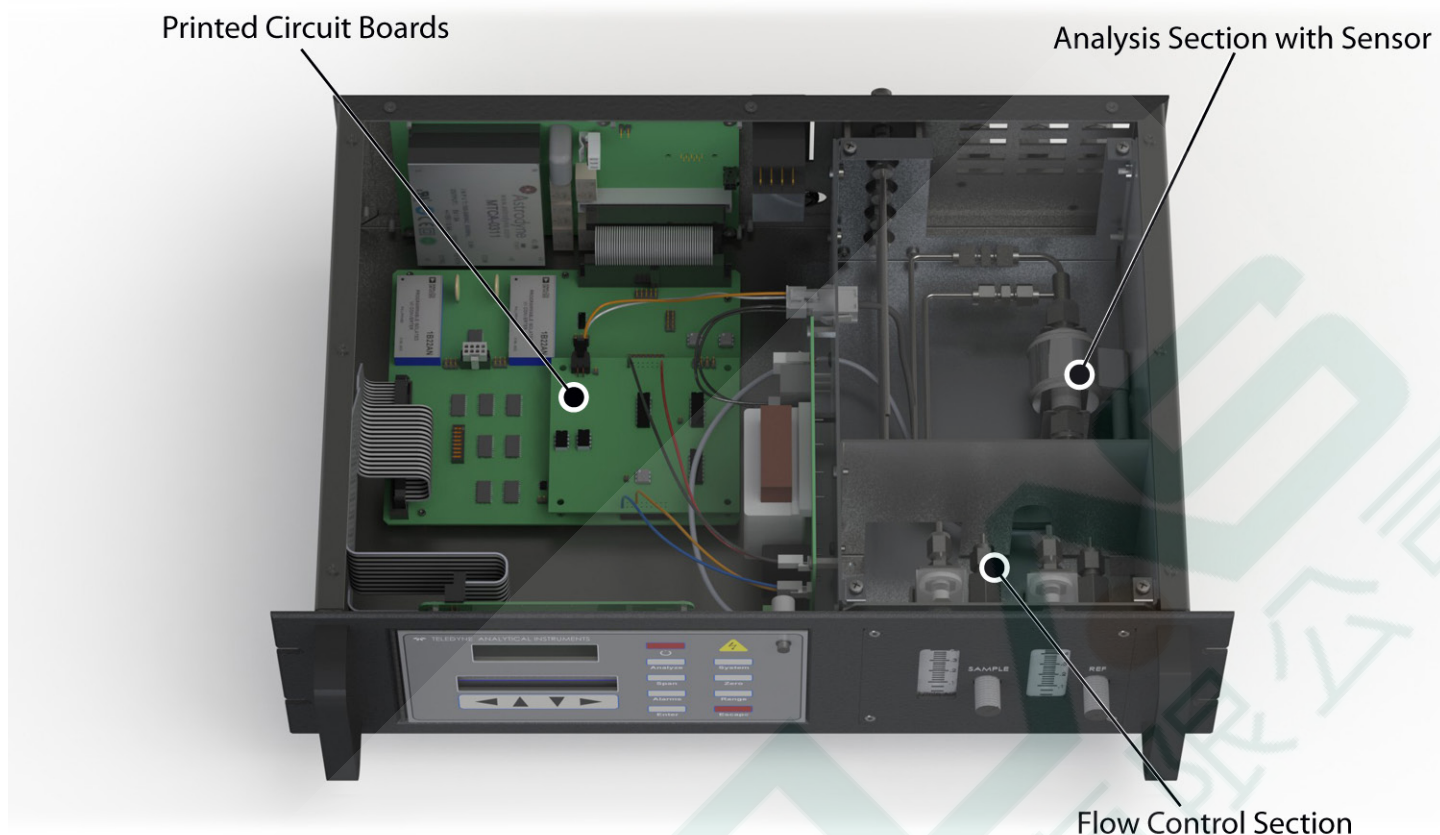
Trace / Percent Oxygen Analyzer
Zirconium Oxide Technology

FEATURES:

- Single-sensor design provides complete analysis range from 0-10 ppm to 0-25%
- -XL configuration provides ranging down to 0-1 ppm
- Fast response time from percent to trace ranges
- 3-5 year expected sensor life
- Maintenance-free
- Front-accessible flow control and monitoring devices
- 5-digit LED display and luminescent 2x20 vacuum fluorescent display to show menu functions and parameters
- 3U 19" rack form factor minimizes rack space requirement



MODEL 3000ZA2G - Trace / Percent Zirconium Oxide Analyzer



The 3000ZA2G combines the reliability, flexibility and ease of use of the 3000 platform with the dynamic functionality of zirconium oxide (ZrO_2) sensing technology to offer a perfect solution for universal oxygen monitoring in inert gas applications.

Zirconium oxide is a non-consuming, solid state sensor. Under a high temperature of $1070^{\circ}F$ ($575^{\circ}C$), the difference in oxygen partial pressure between the measuring and reference surfaces will create a millivolt differential logarithmically proportional to the difference in PO_2 . An instrument air reference is used in the 3000ZA2G. The electronic circuitry conditions in the voltage differential and uses an integral microprocessor to provide a volumetric reading and other electronic functionality.

The 3000ZA2G's microprocessor-based electronics utilize menu-driven functionality. Users are provided a large, luminescent LCD display and 2x20 vacuum fluorescent displays to show all menu functions and parameters. A preamplifier with multiple stage gains supports a wide dynamic operating range with reliable performance.

ELECTRONICS/INTERFACE:

- Microprocessor based electronics
- User-settable ranges
- 0-1 VDC and 4-20 mA (isolated) analog outputs
- Self-diagnostics with Form-C system alarm contact
- Two (2) fully-programmable concentration alarms with Form-C contact
- Range Identification: Form-A contact and 0-1 VDC (4-20 mA optional)
- RS-232 bi-directional serial output
- Profibus DP communications option when used in conjunction with TAI Valve Box



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SPECIFICATIONS:

Type	3000ZA2G	3000ZA2G-XL
RANGE	3 user-settable ranges, 0-10 ppm to 0-25%	3 user-settable ranges, 0-1 ppm to 0-25%
ACCURACY	±2% of the active range at constant temperature	±2% of the active range at constant temperature ±0.2 ppm on 0-1 ppm range
REPEATABILITY	±1% of the active range at constant temperature	±1% of the active range at constant temperature ±0.2 ppm on 0-1 ppm range
RESPONSE TIME (T90)	30 seconds on 0-10 ppm range 15 seconds for higher trace and percent ranges	100 seconds on 0-1 ppm range 30 seconds on 0-10 ppm range 15 seconds for higher trace and percent ranges
GAS CONNECTIONS	1/8" tube fitting, 316SS	
SAMPLE FLOW	0.2 – 0.6 SCFH (100 – 300 sccm)	
REFERENCE GAS	Instrument air, 0.2 – 0.4 SCFH (100 – 200 SCCM) flow rate	
OPERATING TEMPERATURE	41 – 95°F (5 – 35°C)	
POWER	120 VAC or 240 VAC, 50/60 Hz	
DIMENSIONS	19.00" L x 5.22" H x 14.41" D (483 x 133 x 366 mm)	
WEIGHT	Approximately 30 pounds, configuration dependent	

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