

TR0200 Oxygen Deficiency Monitor

Features

- ✓ No maintenance Zirconium cell
- ✓ No calibration required
- ✓ Built in 90db audible alarm.
- ✓ Operates at -40°C in freezers
- ✓ 10+ years sensor life
- ✓ Digital display, 4-20mA output
- ✓ Two alarm setpoints at 19.5% and 18%
- ✓ UL, C UL and CE approved EMC EN 61326-1:2006
- ✓ Includes 24 volt power supply
- ✓ Remote digital display and horn/strobe available
- ✓ 3 year warranty



The TR0200 **Air check ✓ O₂** Deficiency Monitor is a compact gas monitoring system that is ideal for the continuous monitoring of inert gas storage areas, freezers, confined spaces, and other locations where low oxygen levels may pose a hazard to personnel. Unlike electrochemical sensor cells, the **Air check ✓ O₂** zirconium oxide cell provides stable oxygen readings even in areas where temperature, barometric pressure and humidity levels are changing. The AirTest™ TR0200 **Air check ✓ O₂** Deficiency Monitor is suitable for either indoor or outdoor use.

The heart of the monitoring system is a long-lasting zirconium sensor which responds to low oxygen conditions within seconds and provides accurate measurements over a wide temperature and humidity range. The zirconium O₂ sensor cell will operate continuously for 10 or more years and requires an absolute minimum of maintenance. There are no zero or span calibration pots to adjust and when compared to disposable type sensors, our long-life zirconium O₂ sensor can save up to \$475 annually and will pay for itself in just over 3 years!

The TR0200 **Air check ✓ O₂** Deficiency Monitor is ideal for continuously monitoring oxygen levels in confined spaces or areas where inert gases are used. The TR0200 does not drift or lose sensitivity when the weather or temperature changes. The electronics are housed in a Nema 4X housing or optional EX for hazardous areas.

Connects to SCADA and PLC Controls

The TR0200 **Air check ✓ O₂** Deficiency Monitor is 24VDC powered and transmits continuous oxygen concentration levels (4-20 mA) to any data acquisition control system, or programmable logic controller. The AirTest™ Oxygen Deficiency Monitor can also be operated remotely up to 1,000 meters or 0.6 miles from centralized controllers.

The AirTest™ Oxygen Sensor Cell

The TR0200 **Air check ✓ O₂** Deficiency Monitor uses an exclusive current-limiting Zirconium Oxide Oxygen sensor that never requires a reference gas. Unlike concentration type zirconium cells that must have a reference gas, PureAire's O₂ monitor can operate in 100% nitrogen environments. Capable of detecting oxygen levels from 0% to 95%, the current-limiting O₂ sensor operates at a lower temperature than competitive concentration type cells. The average life of AirTest's O₂ sensor is over 10 years in most environments.

The TR0200 **Air check ✓ O₂** Deficiency Monitor does not require calibration. The Earth is a wonderful source of calibrated oxygen and under ambient levels the AirTest™ O₂ monitor is continuously being exposed to 20.9%. There are no zero or span adjustments to make, and the only optional response test required is to subject the O₂ system to nitrogen periodically.

O₂ Monitor System Features

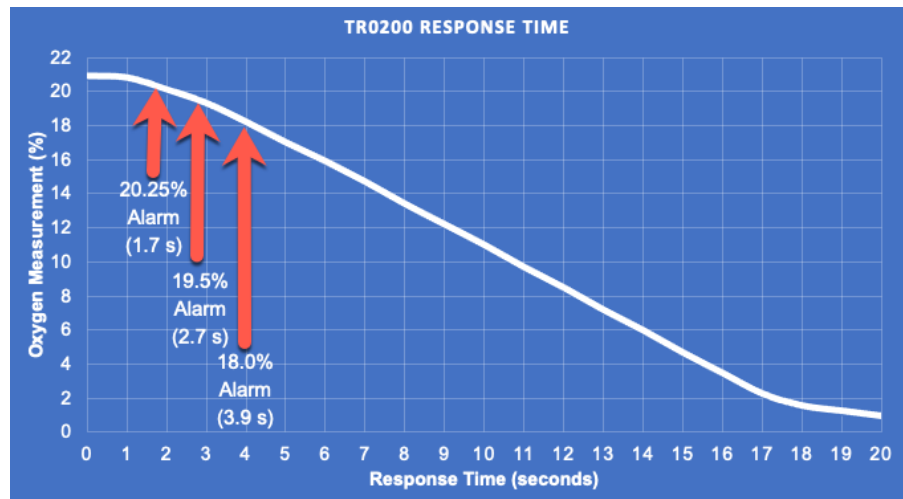
The **Air check ✓ O₂** Deficiency Monitor is available in many different configurations. AirTest™ uses a sophisticated built-in CPU that has the flexibility to provide users with a low-cost basic display-only monitor, or a full-featured monitor with dual level and/or user selectable alarm relays. Other options available are remote digital displays and remote horn and strobe combination.

Specifications

Sampling Method & Range	Diffusion, 0-25% O ₂
Accuracy	± 1% of full scale
Operating Temperature	-40 to + 55°C
Display	¾" backlit LCD digital display
Sensor Type	Long life zirconium oxide sensor cell
Sensor Life	10+ years under normal conditions
Signal Outputs	Standard: 4-20 mA analog output Optional: Dual User Selectable Relays (2amp 30VDC / 240VAC) Audible alarm
Power Requirements	24VDC 100mA without relays; 500mA with relays
Dimensions	5.5 (W) x 10.5 (H) x 3.25 (D) inches; (140 x 267 x 83 mm)
Weight	1.6 lbs. (.8 kg)
Enclosure	NEMA 4X
Required calibration	None (no zero or span pots supplied)



AirTest Technologies Inc.
Stock Info: TSXV:AAT, OTC:AATGF
 Web: www.AirTest.com
 Email: info@AirTest.com
 P: 604 527-3888 TF: 888 855-8880



Specifications Subject to Change Without Notice

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