

R-29MED Oxygen Sensor



Teledyne's R-29MED is designed for direct replacement of sensors used in Ceramtec's MAXO2 series of analyzers. This component offers a cost-effective, replacement sensor solution from the company known for its long tradition of providing stable, long-life sensors to the medical industry.

Incorporating a molded body design and specific to a medical application, this device exceeds performance expectations and offers added protection against long term effects of nitrous oxide exposure.

For further information on the R-29MED or any product in Teledyne's line of oxygen sensors and monitors for medical applications, please call Teledyne directly or contact your distributor.

Specifications

Output: 13 ± 3 mV in air at 23°C ($\pm 1^\circ\text{C}$), 60+5% RH, and 1000 mB

Range: 0 to 100% oxygen

Accuracy: $\pm 2.0\%$ full scale over operating temperature range; $\pm 1.0\%$ full scale at constant temperature and pressure

Response time: < 15 seconds for 90% response; < 25 seconds for 97% response

Zero offset voltage: Less than 0.5 mV in 100% N₂ at STP

Cross interference: Less than 0.1% O₂ response to: 0 to 100% CO₂, CO, H₂, H₂S, CH₄, or H₂O – balance nitrogen, 0 to 1% NO_x – balance nitrogen

Humidity: 0 to 99% RH (non-condensing)

Operating temperature range: 5 to 40°C (31 to 104°F)

Storage temperature: -15 to 40°C (5 to 104°F)

Average expected cell life: 900,000 oxygen % hours

Pressure effect: Continuous use in pressure range from 0.5 ATM to 1.5 ATM; sensor output to be linear with partial pressure of oxygen within $\pm 2\%$ of full scale

Required sample flow: 300 cc per minute to 4L per minute

Stability: Less than 1% drift over 8 hours at constant temperature and pressure

Weight: 1.2 oz (32 grams)

Load: Minimum 1 M ohms

Built for reliability and performance



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Warranty

Instrument is warranted for 1 year against defects in material or workmanship

NOTE: Specifications and features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. All specifications and features are subject to change without notice.

