

OXYGEN MONITORING DATA SHEET

INNOTECH OXY-100

The OXY-100 combines a versatile process meter, a durable enclosure, and a high-precision electrochemical oxygen sensor. This integrated solution provides real-time oxygen level monitoring in a variety of industrial environments, offering flexibility, accuracy, and reliability.

FEATURES

Electrochemical Oxygen detection sensor
High-resolution process meter with dual alarm outputs
Customizable display and USB-configurable setpoints
Rugged minimum IP68-Rated enclosure with clear viewing window
Ideal for oxygen depletion and enrichment monitoring applications

PROCESS METER

Parameter	Specification
Display	4-digit LCD, 40-bar graph, annunciators
Accuracy	±0.1% (voltage), ±0.01% (current)
Input	0–10V, 4–20mA, 10–50mA
Outputs	2 digital alarms, 1 analog 4–20mA
Backlight	Programmable color with alarm alerts
Power	12–24V AC/DC
Software	USB configurable, 20-point scaling
Dimensions	2.83 x 2.83 x 2.09 inches
Certifications	UL, cUL, CE

ENCLOSURE

Parameter	Specification
Material	Aluminum (AL) and Stainless Steel (SS)
Window	4.17in Borosilicate glass
Conduit Connections	(2) Bottom ¾", (2) Side ¾"
Protection	UL, CSA: 4X/IP68; ATEX & IECEx: IP68
Dimensions	6.42 x 7.97 x 8.45inches (W x H x D)
Mounting	Molded-in rails and flanges
Temperature Range	-67°F to 185°F (-55°C to 85°C)
Weight	13.2 lbs (AL), 22 lbs (SS)
Approvals	UL (US-C), CSA (C-US), ATEX, IECEx

OXYGEN SENSOR

Parameter	Specification
Technology	Electrochemical
Output	80–120 µA @ 20.9% O ₂
Response Time	< 15 s (t ₉₀)
Zero Current	< 2.5 µA in N ₂

Linearity	0.6% O ₂ deviation @ 10%
Output Drift	< 1% over 3 months
Operating Life	> 24 months
Humidity Range	5–95% RH (non-condensing)
Temperature Range	-22°F to +131°F (-30°C to +55°C)
Pressure Range	11.6 –17.4 psi (80–120 kPa)
Recommended Load Resistor	47–100 Ω
Dimensions	ø 0.787 in × 0.685 in

PHYSICAL DIMENSIONS

Parameter	Specification
Enclosure Size	6.42 x 7.97 x 8.45 inches (W x H x D)
Assembled Depth	~8.45 in including cable glands
Total Weight	~14lbs (AL), 23 lb (SS)

© Product specifications are subject to change without notice. It is the user's responsibility to ensure suitability for their applications.