

OxyStar-100 O₂ Monitor

Fast-response respiratory oxygen measurement



The OxyStar-100 is a fast-response, high accuracy oxygen analyzer for respiratory monitoring, hypoxic gas studies, or general laboratory use. It features a measurement range of 0 - 100% O₂, with a resolution of 0.1%. Sample flow is adjustable over a 10 - 200ml/min range, making respiratory oxygen measurements possible on small as well as larger animals and human subjects.

The instrument uses an advanced paramagnetic oxygen transducer with fully digital operation. Calibration is accomplished with a simple two-point procedure, typically nitrogen (for 0.0%) and room air (20.9%). The analyzer offers excellent linearity and stability over its entire measurement range.

Standard features of the OxyStar-100 include simple one-knob calibration, analog voltage output signal, and a serial data output for remote monitoring or data collection. A bar-graph display shows rapid changes and trends over three user-selectable ranges. Sample inlet and outlet connections use standard Luer-loc fittings. The instrument comes complete with sample tubing and an accessory pack of tubing and adapter fittings for constructing custom sample tubing configurations.

Specifications:

Measurement range	0 - 100% O ₂
Intrinsic accuracy	<±0.15% O ₂
Linearity over full measurement range	<±0.1% O ₂
Measurement resolution	0.1% O ₂
Repeatability	<±0.1% O ₂
Zero drift	<±0.2% O ₂ / month
Response time (21% O ₂ - 16% O ₂)	<330mS @ 150ml/min
Transducer technology	Paramagnetic
OUTPUT voltage range	0 - 10.0V
OUTPUT connector	BNC
SERIAL OUTPUT protocol	2400,N,8,1
SERIAL OUTPUT connector	9-pin D-SUB female
SAMPLE INLET / OUTLET connectors	Luer-loc female
Power requirements (using supplied power adapter)	115/230V, 50/60Hz @ 5VA
Dimensions	9.3W x 2.5H x 8.0D inches (23.6 x 6.4 x 20.3 cm)

Ordering Information:

Part No.	Model	Description	Applications
14-11000	OxyStar-100	Oxygen monitor	Respiratory monitoring, hypoxic gas measurement
11-10000	CapStar-100	Carbon Dioxide monitor	Respiratory monitoring, metabolic measurement
15-10000	MicroCapStar	Micro-sampling CO ₂ monitor	CO ₂ monitoring in mice and other small animals

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