

Handheld Meters for O₂ and CO

AII-3000 and Palm Series

These ergonomic handheld gas analyzers are a convenient way to check oxygen levels in welding applications or for the safety checks of breathing air for diving.

Highlights

- 0-100% O₂ measurement range
- Long sensor life up to 60 months (AII-3000)
- Battery life up to 18 months continuous use (Palm O₂)
- Integrated or remote sensors
- Fast response time of T90 in <10 seconds

Applications

- Weld purge gas quality
- Personnel safety protection
- Checking concentrations of oxygen in scuba tanks or nitrox mixtures
- Checking for carbon monoxide in scuba tanks

AII-3000

With four format options, these handhelds give user the flexibility to match the instrument to their needs with four combinations of alarms, no alarms, internal and external sensors. 2 AA batteries give up to 50 days of use.

AII-3000-A – External sensor, no alarm

AII-3000-AHC – Internal sensor, no alarm

AII-3000-M – External sensor, alarm

AII-3000-MHC – Internal sensor, alarm

Accessories

Accessories for sampling and mounting are also available – see order code sheet for details.



Palm O₂ and Palm CO

With only two buttons, and one-touch calibration, they are very simple to use. This is the ideal cost-effective choice to check for O₂ or CO in your scuba tanks. Palm O₂ is available with internal or external sensor and offers excellent battery life of up to 18 months of use.

Accessories

Dome Adapter (A-3388), 1/8" tube (A-3676) or BC adapter (A-3671)

Technical Specifications

	AII-3000	Palm O2	Palm CO Analyzer
Measurement range	0-100% oxygen		0-25 ppm CO
Accuracy	< $\pm 2\%$ of FS range under constant conditions		< ± 2 ppm under constant conditions
Response time	T90 < 10 seconds		T90 < 30 seconds
Sensitivity (LDL)	0.50%		0.5 ppm CO
Linearity	$\pm 1\%$ under constant conditions		
Sensor model	AII-11-60 (remote sensor) AII-11-60-HC	AII-11-75-PO2 AII-11-75-PO2-D (for diving)	OSV-22-AF
Sensor life at 25°C (77°F) and 1 atmosphere	60 months in air	32 months in air	24 months in air
Calibration interval	Prior to use and after 8 hours operation		Certified span gas mixture of CO concentrations between 10-20 ppm with balance air.
Inlet pressure	Ambient or 0.34-2 barg (5-30 psig) for flow through connector		800 1200 mbara (11.6-17.4 psig)
Flow rate (constant)	0.2-10 NI/min (0.4-20 SCFH)		
Gas connections	1x16 mm thread 1/4" tube for remote sensors See accessories for additional connectors		Supplied with Dome adapter (A-3388) with optional BC adapter (A-3671)
Display	3½ digit backlit LCD 7 x 3.5cm (2.75 x 1.375"); resolution 0.1	3 digit LCD 2.8 x 1.6cm (1.1 x 0.625"); resolution 0.1	2 digit LCD 2.8 x 1.6cm (1.1 x 0.625"); resolution 1 ppm CO
Dimensions	9.1 x 14.9 x 4 cm (3.6 x 5.9 x 1.6")	6.9 x 10.4 x 3.4cm (2.72" x 4.1" x 1.35")	
Weight	280g (10oz)	196g (7oz)	
Compensation	Temperature compensated		NA
Alarms	User adjustable HI and LO alarms (AII-3000 M and MHC only)		
Storage temperature	-20°C to +60°C (-4°F to 140°F) on intermittent basis		3°C to 35°C (37.4°F to 95°F)
Operating temperature	5 to 45°C (41°F to 113°F)		0°C to 50°C (32°F to 122°F)
Power	2 AA alkaline batteries		
Battery Life	Up to 1200 hrs	Up to 13,000 hrs	Up to 450 hrs of continual use
Humidity	Non-condensing 0-95% RH		
Warm up time	None		60 Seconds
Approvals	ISO 9001:2000, MDD 93/42/Annex II, ISO 13485:2003		None



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Please note: Analytical Industries Inc. adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for the latest version. Issue No: Handheld O₂ Meters_partnumber_V2_UK_1018