



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 | < ±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 | ±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 |

