



**Analytical Industries Inc.**  
**Advanced Instruments Inc.**

**AII 3000 Series Oxygen Analyzers**

**Technical Specifications**

Accuracy:	< $\pm 2\%$ of FS range under constant conditions
Analysis:	0-100% oxygen
Application:	Personnel safety Area monitoring O <sub>2</sub> deficiency in confined spaces Checking breathing air tanks Checking tanks intended for scuba diving Confirming the O <sub>2</sub> levels prior to welding
Approvals:	ISO 9001:2000, MDD 93/42/Annex II, ISO 13485:2003
Area Classification:	General purpose
Alarms:	A models: None; M models: User adjustable HI 1-100% and LO 0-99% alarms; 120 second alarm silence for calibration purposes; HI alarm defeat for 100% O <sub>2</sub> analysis
Calibration:	Air or certified 100% O <sub>2</sub> every 8 hours
Compensation:	Temperature compensated
Connections:	A/M models: 1x16 mm thread; HC models: Tubing 1/4"
Controls:	Soft touch keypad for ON/OFF and menu function
Dimensions:	3.6 x 5.9 x 1.6"; weight 10 oz. (280 grams)
Display:	3-1/2 digit backlit LCD 2.75 x 1.375; resolution 0.1% O <sub>2</sub>
Flow Sensitivity:	None between 0.2 to 10 liters per minute
Humidity:	Non-condensing 0-95% RH
LED Indicators:	A models: None; M models: upon activation of alarms
Linearity:	$\pm 1\%$ under constant conditions
Pressure:	Inlet - A/M models ambient, HC models - regulate; Vent all models - atmospheric
Power:	2 AA Alkaline batteries; 1,200 hours continuous use
Response Time:	90% of final FS reading in 9 seconds
Sensitivity:	< 0.5% of FS range
Sensor:	A/M models: AII-11-60; HC models: AII-11-60-HC
Sensor Life:	60 months in air at 25°C and 1 atmosphere
Signal Output:	None
Storage Temp.:	-20° to 60°C (-4°F to 140°F) on intermittent basis
Temp. Range:	5° to 45°C (41°F to 113°F)
Warm-up Time:	None
Warranty:	12 months analyzer; 12 months sensor



**AII-3000 A**



**AII-3000 AHC**

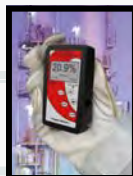


**AII-3000 M**



**AII-3000 MHC**

**Accessories - see back page**



ISO 9001:2008 Certified  
 INTERTEK Certificate No. 485





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# Diving Industrial Welding

## AII 3000 Series Optional Accessories

### Spare Parts

#### AII-3000 A, AII-3000 M

AII-11-60 Oxygen Sensor  
 BATT-1008 Battery (2x) 1.5V AA  
 P-1087 Instructions for Use  
 A-1162 PCB Assy Main  
 CABL-1006 Coil Cable

#### AII-3000 AHC, AII-3000 MHC

AII-11-60-HC Oxygen Sensor  
 BATT-1008 Battery (2x) 1.5V AA  
 P-1087 Instructions for Use  
 A-1162 PCB Assembly Main  
 TUBE-1019 7/32" OD Tubing 3'



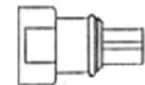
**A-3388 Adapter,  
Dome to Sensor**



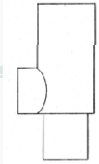
**A-3675 Adapter  
5/32" Tube to Sensor**



**A-3671 Adapter, BC with  
Restrictor to Sensor**



**FITN-1112-1  
Flow Diverter**



**FITN-1009  
Tee Adapter**



**A-3676 Adapter,  
1/8" Tube to Sensor**

**TUBE-1018 Tubing,  
1/8" x 3'**

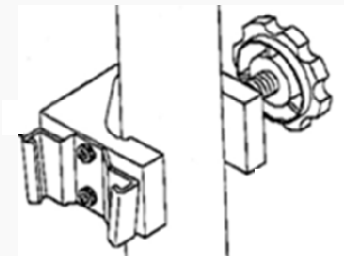


**A-3609 Adapter,  
Dome to 1/8" Tube**

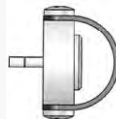
**CC-1072 Carrying Case**



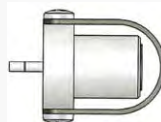
**A-3673 BC with  
Restrictor to 1/8" Tube**



**HRWR-1075 Dovetail  
Clamp Pole or Shelf**



**A-3678 Adapter,  
A-Yoke to 1/8" Tube**



**A-3677 Adapter, DIN  
to 1/8" Tube**

**A-3692 Hand Pump Kit**



**A-3674 Adapter  
5/16" Tube to Sensor**



**PUMP-1020 Pump, Hand**

**TUBE-1020 Tubing,  
5/16" x 3' (2x pcs)**