



## Technical Specifications

**Application:** The AII-2000 A, HC Oxygen Analyzers are intended for short term use in combination with therapeutic devices such as lung ventilators and incubators; monitoring vital physiological processes and parameters such as respiration, anesthesia, intensive or emergency care; monitoring the administration of gases using ventilators, anesthesia machines, hyperbaric chambers and medical gas mixers.

The AII-2000 A, HC Oxygen Analyzers measure and displays an independent secondary confirmation of the oxygen concentration in breathing gases administered by other devices.

**Analysis:** 0-100% oxygen  
**Accuracy:** Less than  $\pm 1\%$  of FS range under constant conditions and  $\pm 5\%$  over the operating range

- Application Considerations:**
- ◆ Anesthetic agents: Complies with ISO 80601-2-55 for the maximum error allowable over a given duration.
  - ◆ Temperature: Signal output and expected life change 2.54% per 1°C. Signal output is compensated within following ambient calibration, step changes of 15°C require 30-60 minutes to equilibrate.
  - ◆ Pressure: Signal output and expected life change proportionally. Accurate at any pressure provided it is constant, change is gradual simulating the human lung and the device is calibrated at the pressure of the sample gas.
  - ◆ Humidity: Non-condensing RH has no effect. Adding water vapor to the sample reduces the oxygen concentration.
  - ◆ Condensation: Causes erroneously readings if allowed to cover the sensing area or collect on electrical connections.
  - ◆ Electromagnetic Radiation: Susceptible to interference over frequencies from 26 MHz to 1000 MHz.

**Calibration:** Air or certified 100% O<sub>2</sub> before use or every 8 hours, after disconnecting or replacing the batteries or oxygen sensor

**Cleaning:** Wipe components with a soft cloth dampened with water or mild 70% isopropyl alcohol solution in water.

**Compensation:** Temperature

**Connections:** 1x16 mm thread or push-in flow diverter with o-ring seal

**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; < 10 lpm with 1/4" tube AII-2000 HC;  
 < 80 lpm with 15mm tee adapter/tube AII-2000 A, M

**Humidity:** Non-condensing 0-95% RH

**Linearity:**  $\pm 1\%$  under constant conditions

**Mounting:** Flat surface for tripod extension or dovetail V-mount

**Operating Range:** 5° to 45°C (41°F to 113°F)

**Power:** 2 AA Alkaline batteries; 1,200 hours of 24/7 use

**Pressure:** Inlet - ambient or regulated; vent - atmospheric

**Power:** 2 AA Alkaline batteries; 1,200 hours of 24/7 use

**Response:** 90% of final FS reading in 10 seconds

**Sampling:** 'A version' Ambient-remove flow diverter; flowing gas-install flow diverter, insert into tee-adaptor and position face down; 'HC version' Connect 1/4" tubing to gas fitting on right side.

**Sensitivity:** < 0.5% of FS range

**Sensor:** 'A version' AII-11-60; 'HC version' AII-11-60-HC

**Sensor Life:** 60 months in air at 25°C and 1 atm

**Storage:** 0° to 45°C (32°F to 113°F) on intermittent basis

**Warm-up:** None

**Warranty:** 24 months analyzer; 18 months sensor

## Optional Equipment

HRWR-1075 Dovetail Pole/Shelf Clamp, CC-1072 Carrying Case



**AII-2000 A  
Oxygen Analyzer**



**AII-2000 HC  
Oxygen Analyzer**

Manufactured under an  
independently certified  
Quality Management System



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