



The Low Cost Hand Held Oxygen Monitor



The **Ntron Model C-5** is a battery powered, handheld oxygen analyzer with internal pump that can quickly provide analysis of 0-25% oxygen with 0.1% resolution. Rugged and compact enough to be carried in a briefcase or toolbox, the versatile, inexpensive C-5 is equally suited on the production floor, in research labs, or for tuning combustion processes.

Fuel Cell Oxygen Sensor Technology

The C-5 oxygen sensor is a small diffusion limited, fuel cell that converts oxygen concentration by volume directly into low level electrical current. Using a capillary as the diffusion interface provides for a sturdier sensor with better temperature and pressure coefficients than membrane type oxygen cells. The size of a "C" cell torch battery, the C-5 oxygen sensor is inexpensive, disposable, and unaffected by most background gases.

Two Sampling Modes

The C-5 features two sampling modes. The timed 'ON' mode provides for repeatability in multiple samples and maximizes battery life. The C-5 draws a sample for 20 seconds and holds the display for 30 additional seconds. In the continuous 'CAL' mode, the C-5's pump draws a sample and displays its oxygen concentration continuously.

Easy to Maintain

An integral moisture trap and line filter protect the oxygen sensor from potential contaminants. The inexpensive, disposable oxygen sensor calibrates with ambient air and is simple to replace. The C-5 is powered by 4 'AA' batteries.

High Purity Welding

The C-5 is ideally suited for high-purity welding. An oxygen analyzer, like the C- 5, is the only way to accurately measure low concentrations of oxygen in purged tubing and pipes in high purity welds.

Specifications:

Size:	135mm high x 90mm wide x 35mm deep (excluding case).
Enclosure Material:	Moulded High-Impact Plastic.
Weight:	400 gr.
Measured Gas Range:	0-25% Oxygen by Vol..
Sensor Type	Electrochemical Fuel Cell.
Warm up:	Instantaneous.
Sensor Life :	9-16 months.
Resolution:	0.1% oxygen.
Repeatability:	0.1% oxygen.
Response Time:	90% of step change in less than 15 sec.
Intrinsic Error (accuracy):	0.2% oxygen.
Power:	4 AA alkaline dry cells; Low Battery Warning Light.
Sensor Guarantee:	6 months from date of shipment.
Sampling:	Stainless steel sample probe and 6' neoprene sample line. Integral particulate and condensate filter.
Display :	0.4" LED , 3 Digit.
Calibration Gas:	Ambient Air.
Calibration Period:	Weekly (typical)
Temperature range	i) Operating -5 to +40 ^o C. ii) Storage -20 to +50 ^o C.
Environmental Rating	IP65
Humidity Operating Range:	15% to 95% relative humidity, non-condensing. Operation is possible in the range 0-100% R.H however; sensor life will be reduced by continuous operation at extremes of humidity and temperature.
Air Pressure Operating Range:	920 mbar to 1150 mbarA.

