

The Model 55 is a portable oxygen deficiency monitor for personnel protection in confined work spaces.



The Model 55 is a self-contained, lightweight, battery operated personal oxygen deficiency monitor. This easy to use monitor does not require any adjustments by the user other than routine calibration. The monitor reads true percent oxygen in the presence of any diluent including humidity and will not be affected appreciably by barometric pressure changes caused by elevation or weather changes.

When the percent oxygen falls below 19.5% (factory set) the large LCD digital display will be augmented by an audible alarm. The red LED also will turn on to provide visual indication of the alarm.

An external earphone (included) is available for use in noisy environments. If it is attached the alarm will sound only through the earphone.

Besides the oxygen deficiency alarm, the Model 55 also includes an alarm to indicate low battery voltage or low sensor output.

A remote sensor option is available to check confined environments for oxygen deficiency prior to entry.

Housed in a rugged, high impact enclosure, the lightweight Model 55 attaches easily to the operator's belt. It does not interfere with the worker's duties.

Features	Benefits
■ Temperature stable and insensitive to barometric pressure	Reliable operation
■ Single off-the-shelf 9V battery	Readily available power for long term use, low cost operation
■ Compact, lightweight	Will not hinder the person's ability to work in confined areas
■ Self diagnostics	Insures proper, accurate operation
■ Easy sensor cell replacement	Low maintenance costs

Model 55
Personal Oxygen Monitor

SPECIFICATIONS

SENSOR:	OXYMAX™ oxygen concentration transducer	ALARMS:	
DISPLAY:	3 digit LCD, %O ₂ in air from 0% to 25.0% with low battery indicator	Audible Alarm:	72 dB rating (Factory set to alarm below 19.5% O ₂)
ACCURACY:	$\pm 3\%$ of full scale from 5° to 122°F (10° to 50°C) $\pm 4\%$ of full scale from 32° to 122°F (0° to 50°C)	Visual Alarm:	LED light
RESPONSE:	10 seconds to 90% indication	CONNECTIONS:	Alarm earphone jack, external sensor jack
RESOLUTION:	0.1 % Oxygen	BATTERY:	9V alkaline, 200 hours life typical
SENSOR LIFE:	6 months in ambient air	OPTIONAL REMOTE SENSOR:	Sensor, housing and circuitry provided with 20 foot cable
PRESSURE SENSITIVITY:	0.33% O ₂ change for 3000 foot elevation change or 75 mm Hg barometric change	ENCLOSURE:	Two-piece, molded high impact plastic
OPERATING TEMPERATURE:	32° to 122° F (0° to 50° C)	INTERFERING GASES:	Ozone, chlorine and other highly oxidizing gases will interfere to the extent of their oxygen equivalent. Highly corrosive atmosphere will cause premature failure.
CALIBRATION ADJUSTMENTS:	Calibrate both internal and external sensors against dry O ₂ /N ₂ . Both calibration adjustments are with a jeweler's screwdriver	SIZE:	5.7 x 3.5 x 1.4 in. (14.5 x 8.9 x 3.6 cm)
		WEIGHT:	11 oz. (312 g)

ORDERING INFORMATION

Model 55-00 Oxygen Deficiency Monitor

Model 55-01 External Oxygen Sensor on 20' Cable

