Oxygen
(0 – 25.0 %vol)
Part No. 823-0240-22
FM Performance Certified $^{1, 2}$

Minimum Indicated Concentration .............. 0.8 % O$_2$
Minimum Indicated Conc. Change .............. 0.1 % O$_2$
Accuracy$^3$ ..................................................... ± 0.2% O$_2$ @ 20.9 % O$_2$
..................................................... ± 0.4 % O$_2$ @ 18 % O$_2$
Span Drift .................................................... < 10% change per year (typical)
Response Time (Rise)$^4$ .............................. T$_{50}$: < 10 seconds
..................................................... T$_{90}$: < 15 seconds, successive exposures
Temperature Range ................................... -20° to 50°C (-4° to 122°F)
Humidity Range .......................................... 0–90 %RH, non-condensing
Pressure Range .......................................... Ambient atmospheric, ± 1 psi
Expected Sensor Life .................................. Up to 2 years from Shipping Date$^5$
Recommended Calibration Flow Rate .......... 500 to 1000 cc/min
SensAlert 4-Channel Controller ............... Compatible

$^1$ For use in an FM Approved SensAlert Plus Transmitter
$^2$ Certified through 21 %vol maximum reading
$^3$ When Calibrated at 20.9 % O$_2$
$^4$ Room Temperature
$^5$ Sensor is always operating; long-term storage is not recommended

Note: These are capillary style oxygen sensors optimized for use on oxygen/nitrogen atmospheres. Gases that alter the ambient gas density will produce erroneous oxygen readings, e.g. 5 % helium in the ambient will produce a false high oxygen reading. This is a gas density/diffusion effect rather than a chemical effect. These sensors are not recommended for atmospheres other than oxygen/nitrogen.
Special Calibration Considerations:
Oxygen Sensor (PN° 823-0240-22)

Zeroing The Sensor
Ambient Oxygen sensors do not normally require zeroing and cannot be zeroed through the Calibration menu.

Span Calibration
It is recommended that this sensor be calibrated at 20.9 %vol. There are no special calibration considerations for this sensor. Complete span calibration instructions are provided in Section 3.2 of the SensAlert Plus User Manual.

Test-on-Demand Cell
There is no Test-On-Demand cell available for this sensor.