

Sensor Data Sheet

SENSALERT PLUS

SENSIDYNE



Hydrogen
(0 - 1000 ppm)
Part No. 823-0210-21
FM Performance Certified ¹

Minimum Indicated Concentration	30 ppm
Repeatability	± 5% of Reading
Accuracy ²	± 10% of Reading
Span Drift	< 10% change per year (typical)
Response Time (Rise) ³	T ₅₀ : < 20 seconds
	T ₉₀ : < 70 seconds, successive exposures
Recovery Time (Fall) ³	T ₁₀ : < 120 seconds
Temperature Range	-20° to 50°C (-4° to 122°F)
Humidity Range (continuous)	15–90 %RH, non-condensing
Humidity Range (intermittent).....	0–99 %RH, non-condensing
Pressure Range	Ambient atmospheric, ± 1 psi
Expected Sensor Life	3 years from Shipping Date
Recommended Calibration Flow Rate	500 to 1000 cc/min
Oxygen Requirement	1% by volume, minimum
SensAlert 4-Channel Controller.....	Compatible

¹ For use in an FM Approved SensAlert Plus Transmitter.
² When unit is calibrated and serviced at recommended intervals.
³ Room Temperature.

Cross-Interferences*

Gas	Gas Exposure	Sensor Output
Carbon Monoxide	5 ppm	+1 ppm
Chlorine	1 ppm	None
Ethylene	1.3 ppm	+1 ppm
Hydrogen Chloride	5 ppm	None
Hydrogen Cyanide	3 ppm	+1 ppm
Nitric Oxide	4 ppm	+1 ppm
Nitrogen Dioxide	5 ppm	None
Sulfur Dioxide	5 ppm	None

* Interference factors may differ from sensor to sensor, it is not advisable to calibrate with interferent gases.

Special Calibration Considerations:
Hydrogen Sensor (PN° 823-0210-21)

Zeroing The Sensor

There are no special zeroing considerations for this sensor. Complete zeroing instructions are provided in Section 3.1 of the SensAlert^{Plus} User Manual or SensAlert ASI User Manual.

Span Calibration

It is recommended that this sensor be calibrated at the half-scale concentration of 500 ppm. 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 or SensAlert ASI User Manual.

Test-on-Demand Cell

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