

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 | 2 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.

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.

Test-on-Demand Cell

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