

Sensor Data Sheet

SENSALERT PLUS



H₂ Compatible Combustible Gas – Catalytic Bead (0 - 100 %LEL) Part No. 823-0211-33 FM Performance Certified ⁵

Minimum Indicated Concentration	3 %LEL
Repeatability	± 2% of Reading
Accuracy ^{1,2}	± 10% of Reading
Span Drift	< 10% change per year (typical)
Response Time (Rise) ³	T ₆₀ : < 5 seconds
Recovery Time (Fall) ³	T ₁₀ : < 30 seconds
Temperature Range	-25° to 75°C (-13° to 167°F)
Humidity Range (continuous)	0–90 %RH, non-condensing
Humidity Range (intermittent).....	0–99 %RH, non-condensing
Pressure Range	Ambient atmospheric, ± 1 psi
Expected Sensor Life ⁴	3 years from Shipping Date
Recommended Calibration Flow Rate	500 to 1000 cc/min
Oxygen Requirement.....	10% by volume, minimum
SensAlert 4-Channel Controller.....	Compatible

¹For both Hydrogen and Propane.
²When unit is calibrated and serviced at recommended intervals.
³Room Temperature, hydrogen gas.
⁴ Sensor life will be shortened by overexposure to combustible gases.
⁵ For use in an FM Approved SensAlert Plus Transmitter

Gas Interference Note: This sensor is optimized for use with hot burning gases such as hydrogen, acetylene, and ethylene oxide, it is not hydrogen specific. This sensor has approximately the same gas interferences as listed in the propane k-factor data of the regular SensAlert^{Plus} catalytic bead combustible sensor specification.

Special Calibration Considerations:

H₂ Compatible Catalytic Bead Combustible Sensor (PN° 823-0211-33)

Zeroing The Sensor

There are no special zeroing considerations for this sensor. Complete zeroing instructions are provided in the SensAlert Plus User Manual.

Span Calibration

It is recommended that this sensor be calibrated at the half-scale concentration of 50 %LEL hydrogen gas, 50 %LEL of the target gas, or 50 %LEL propane if propane is used as a surrogate gas. Complete span calibration instructions are provided in the SensAlert Plus User Manual. It is not recommended that this sensor be calibrated or tested with methane.

Note: *The SensAlert^{Plus} transmitter must be set for “Other” as gas type, and “None” as k-factor when calibrating with hydrogen.*

Test-on-Demand Cell

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