H₂ Compatible Combustible Gas – Catalytic Bead

(0 - 100 %LEL)
Part No. 823-0211-33
FM Performance Certified

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 .................................. T₆₀: < 5 seconds
Recovery Time (Fall)³ .................................. T₁₀: < 30 seconds
Temperature Range ..................................... -25°C to 75°C (-13°F 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 Life⁴ ............................... 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

¹ For both Hydrogen and Propane.
² When unit is calibrated and serviced at recommended intervals.
³ Room 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⁺⁺ catalytic bead combustible sensor specification.
**Special Calibration Considerations:**

**H\textsubscript{2} 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\textsuperscript{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.