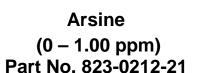
Sensor Data Sheet

SENSALERTPLUS







| Minimum Indicated Concentration | 0.03 ppm |
|--|------------------------------------|
| Repeatability ² | ± 5% of Reading |
| Accuracy ¹ | ± 10% of Reading |
| Span Drift | < 5% change per 6 months (typical) |
| Response Time (Rise) ² | T ₉₀ : < 30 seconds |
| Recovery Time (Fall) ² | T ₁₀ : < 90 seconds |
| Temperature Range | 20° to 45°C (-4° to 113°F) |
| Humidity Range (continuous) ³ | 10–95 %RH, non-condensing |
| Humidity Range (intermittent) ³ | 0–99 %RH, non-condensing |
| Pressure Range | Ambient atmospheric, ± 1 psi |
| Expected Sensor Life | 24 months from Shipping Date |
| Recommended Calibration Flow Rate | 500 to 1000 cc/min |
| Oxygen Requirement | 1% by volume, minimum |
| SensAlert 4-Channel Controller | Compatible |

¹ When unit is calibrated and serviced at recommended intervals.

Cross-Interferences*

| Gas | Gas Exposure | Sensor Output |
|------------------|--------------|---------------|
| Carbon Monoxide | 85 ppm | None |
| Chlorine | 3 ppm | -1 ppm |
| Hydrogen Cyanide | 18 ppm | +1 ppm |
| Hydrogen | 3,100 ppm | None |
| Hydrogen Sulfide | 1.7 ppm | +1 ppm |
| Sulfur Dioxide | 3.3 ppm | +1 ppm |

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

² Room Temperature, seasoned system.

³ Sensor is subject to minor moisture transients on sudden changes in moisture level. Note that transients are positive for increasing moisture and vice versa.

Hydride Cross-Interferences*

| Gas | Gas Exposure | Sensor Output |
|-----------|--------------|---------------|
| Arsine | 1.0 ppm | +1 ppm |
| Diborane | 1.1 ppm | +1 ppm |
| Germane | 1.4 ppm | +1 ppm |
| Phosphine | 0.6 ppm | +1 ppm |
| Silane | 3.0 ppm | +1 ppm |

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

Special Calibration Considerations: Arsine (PN° 823-0212-21)

Zeroing The Sensor

It is recommended that the sensors be zeroed in clean ambient air or bottled Zero Air. If zero air is used, a prezeroing exposure of 2 to 5 minutes is recommended to overcome possible moisture transients.

Span Calibration

It is recommended that this sensor be calibrated at 0.5 ppm AsH₃ if possible. If accuracy is not an issue, PH₃ gas may be used as a span gas with a 57% cross-interference factor. The use of Teflon™ tubing is recommended with this gas to prevent gas absorption into the tubing walls. Complete span calibration instructions are provided in the SensAlert^{Plus} User Manual or SensAlert ASI User Manual.

Test-on-Demand Cell

Test-On-Demand cell available for this sensor: 821-0204-06 (Type S). The user should minimize the ToD cell intensity for a particular application to reduce the chance of the transmitter breaking out of ToD test mode while gas is still present. Otherwise, it could take 10 to 15 minutes for the gas levels to fall below alarm concentrations.

Moisture Effects

These sensors exhibit a minor positive moisture transient when exposed to a rapid increase in ambient moisture. The sensors underwent a minor negative transient when suddenly exposed to dry air (23°C, 0%RH) after sitting in room air (23°C, 55 – 60%RH). These transients took from 0.5 to 2 minutes to fall below zero suppression. Note that this gas will hydrolyze with moisture, reducing the apparent gas concentration.