

**no false alarms**

**Gas Detection Systems**



**B<sub>2</sub>H<sub>6</sub>  
Diborane**

**FEATURES: 2-Wire**

**2-Wire *smarter* Transmitter**

**Self-Calibration = Cost Reduction**

- **no false alarms** - does not react with changes in temperature/humidity/pressure
- **Does Not Drift** - no autozeroing or adjustments required
- **Rapid Warm-up** - ready to calibrate 3 minutes after power applied - does not require bias voltage to stay ready - no need to wait hours for stabilization
- **Not Affected by Humidity** - 10% to 95% relative humidity - continuous  
0% to 99% relative humidity - intermittent
- **Not Affected by Temperature** - -20° C to +40° C is not temperature compensated
- **Self-Calibration** - microcontroller electronics automatically adjusts span calibration over time based on typical life curve for sensor - sensors not routinely calibrated stay much closer to proper calibration - reduces calibration frequency - actual field calibration data re-adjusts life curve
- **Sensor Life Remaining** - determined based on sensor life curve, calibration history and electrical characteristics of sensor - shown on LCD display
- **Non-Intrusive One-Man Calibration** - use magnet to actuate zero and span calibration switches behind enclosure glass window - no manual adjustments required - no need to open enclosure
- **Off-site Sensor Calibration** - calibrate sensor in lab and install on any same type **smarter** Transmitter with no further calibration required - calibration data automatically uploads to transmitter to ensure precise calibration
- **Peak Value** - 15 min. TWA/No. days since last gas calibrated
- **Diagnostics** - continuous analysis of transmitter system to report any fault conditions, including replace sensor and sensor disconnected
- **Loop Test** - transmitter outputs 4/8/12/16/20mA signal to verify readings and alarms at controller electronics
- **Maintenance Free** - no replenishment of electrolyte or water during 2+ years of normal life
- **Long Life** - over 2 years continuous operation
- **Fast Response** - 90% of reading in less than 30 seconds
- **Fast Recovery** - 90% recovery in less than 30 seconds
- **Not Saturated** by occasional high concentrations of gas in the work environment (continuous gas exposure reduces service life)
- **Stays Awake** - does not go to sleep when gas is absent for long periods of time
- **Chemically Selective**



Part No. 01-2241SMTR

## SENSORS:

<b>Detection Principle:</b>	Electrochemical
<b>Detection Method:</b>	Diffusion (Sample-Draw Available, Nema 4X)
<b>Detection Range:</b>	0.00-1.00 ppm; 0.00-10.00 ppm
<b>Output Signal:</b>	Linear
<b>Resolution:</b>	.01 ppm
<b>Response Time:</b>	<30 sec. to 90% of final reading
<b>Recovery Time:</b>	<30 sec. to 90% recovery
<b>Humidity Range:</b>	10% - 95% RH, non-condensing - continuous 0% - 99% RH, non-condensing - intermittent
<b>Temperature Range:</b>	-20°C to +40°C -4°F to +104°F
<b>Pressure Range:</b>	Atmospheric ±15%
<b>Zero Drift:</b>	<.02 ppm
<b>Position Sensitivity:</b>	None
<b>Storage Life:</b>	>6 months in container
<b>Life Expectancy:</b>	>2 years in clean air

## TRANSMITTER SPECIFICATIONS:

<b>Operating Voltage:</b>	10-30VDC, 2-Wire Loop Powered
<b>Transmitter Output:</b>	4-20 mA
<b>Sampling Method:</b>	Diffusion (Sample-Draw Available)
<b>Calibration Method:</b>	Non-Intrusive, magnetic switches
<b>Enclosure:</b>	CSA/FM/UL/CENELEC/KEMA Class I, Div. I, Groups B/C/D Class II, Groups E/F/G Class III, Type 4X
<b>Weight:</b>	3.5lbs/1.589kg.
<b>Part No.:</b>	01-2241SMTR

**Note: Specifications subject to change without notice**



**Toll Free: 888-4MILRAM • 1-888-464-5726**

4135 Business Center Drive • Fremont, CA 94538

Tel: 510-656-2001 • Fax: 510-656-2004

sls@mil-ram.com • www.mil-ram.com

www.wirelessmil-ram.com