

MIL - RAM TECHNOLOGY

no false alarms

Gas Detection Systems

New & smarter

**HBr
Hydrogen Bromide**

FEATURES: 3 or 4-Wire

3 or 4-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** - 5% to 95% relative humidity - continuous
0% to 99% relative humidity - intermittent
- **Not Affected by Temperature** - -25° C to +50° C is not temperature compensated
- **Self-Calibration** - microcontroller electronics automatically adjusts span calibration cover 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
- **Alarm Settings** - user adjustable low, mid and high alarm settings
- **Alarm Relays** - (option) low, mid and high relays, user selectable non-latching/latching, non-energized/energized - fault relay, non-latching, normally energized - all relays rated 20 amps
- **Peak Value** - 15 min. TWA/No. days since last gas calibrated
- **Loop Test** - transmitter outputs 4/8/12/16/20mA signal to verify readings and alarms at controller electronics
- **Diagnostics** - continuous analysis of transmitter system to report any fault conditions, e.g. low sensor life, low gas sensitivity, sensor disconnected, etc.
- **Maintenance Free** - no replenishment of electrolyte or water during 3+ years of normal life
- **Long Life** - over 3 years continuous operation
- **Fast Response** - 90% of reading in less than 60 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**

SENSORS:

Detection Principle:	Electrochemical
Detection Method:	Diffusion (Sample-Draw Available, Nema 4X)
Detection Range:	0.0-20.0 ppm; 0.0-200 ppm
Output Signal:	Linear
Resolution:	0.1 ppm
Response Time:	<60 sec. to 90% of final reading
Recovery Time:	<30 sec. to 90% recovery
Humidity Range:	5% - 95% RH, non-condensing - continuous 0% - 99% RH, non-condensing - intermittent
Temperature Range:	-25°C to +50°C -13°F to +122°F
Pressure Range:	Atmospheric ±15%
Zero Drift:	<0.1 ppm
Position Sensitivity:	Install vertically
Storage Life:	>18 months in container
Life Expectancy:	>3 years in clean air - factory rechargeable many times



2 line x 12 Character Back-lit LCD Display

Modbus Option—RS-485 Modbus RTU, Ethernet Modbus TCP/IP. Link up to 247 *smarter* Transmitters on a twisted pair cable and collect data continuously at host computer, PLC, PC, data-logger, etc. P/N: 01-2516SMTRMB

TRANSMITTER SPECIFICATIONS:

Operating Voltage:	12 or 15-30VDC
Transmitter Outputs:	4-20 mA, RS-485 Modbus RTU (option)
Sampling Method:	Diffusion (Sample-Draw Available)
Calibration Method:	Non-Intrusive, magnetic switches
Enclosure:	CSA/FM/UL/CENELEC/KEMA Class I, Div. I, Groups B/C/D Class II, Groups E/F/G Class III, Type 4X
Weight:	3.5lbs/1.589kg.
Part Number:	01-2516SMTR
Power Required:	1.08W at 24VDC/2.60W Max. w/Relays

Note: Specifications subject to change without notice



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