

MIL - R A M T E C H N O L O G Y

no false alarms

Gas Detection Systems

**New &
smarter**

**Chlorinated/Fluorinated
Gases & Freons®**

FEATURES: 3 or 4-Wire

- ***no false alarms*** - does not react with changes in temperature/humidity/pressure
- **Does Not Drift** - no autozeroing or adjustments required
- **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 clear 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 10 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 sensor life
- **Long Sensor Life** - over 3 years continuous operation, factory rechargeable
- **Fast Response** - 90% of reading in less than 60 seconds
- **Fast Recovery** - 90% recovery in less than 60 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:	Electrochemical with Pyrolyzer
Detection Range:	0-100 ppm or 0-200 ppm
Output Signal:	Linear
Resolution:	1 ppm
Response Time:	<60 sec. to 90% of final reading
Recovery Time:	<60 sec. to 90% recovery
Position Sensitivity:	Install vertically
Storage Life:	>18 months in container
Life Expectancy:	>3 years in clean air typical- factory rechargeable many times

Note: Specifications subject to change without notice



3 or 4-Wire *smarter* Pyrolyzer

Self-Calibration = Cost Reduction



TRANSMITTER SPECIFICATIONS:

Operating Voltage:	24 VDC
Transmitter Outputs:	4-20 mA, Modbus optional
Sampling Method:	Electrochemical with Pyrolyzer
Calibration Method:	Non-Intrusive, magnetic switches
Enclosure:	Sample Draw NEMA 4X Plastic Pyrolyzer Furnace NEMA 4X Stainless Steel
Part Number:	01-2554SMTRP12
Power Required:	24VDC

Principle of Operation

The Pyrolyzer provides thermal pre-treatment of the gas stream to convert the chlorinated/fluorinated compounds into the corresponding acid gas for detection at low ppm levels using electrochemical methods.

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