MDA Scientific SPM Pyrolyzer

Honeywell

SPM Pyrolyzer is a compact yet easily serviceable monitor for sampling Nitrogen Trifluoride (NF_3) from locations up to 10 feet away

SPM Pyrolyzer

Advantages

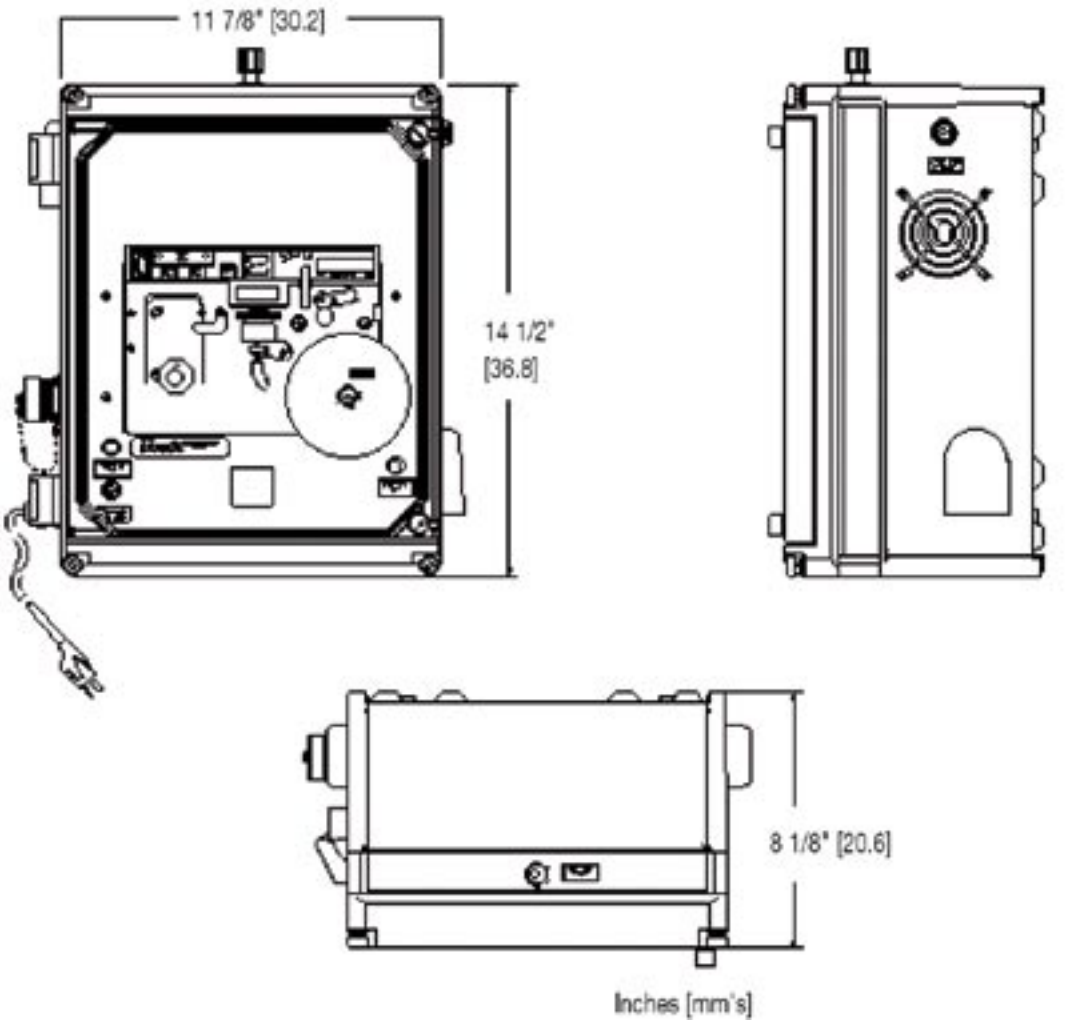
- Fast response monitor specific to NF_3
- Gas sensitivity to low ppm. Range 2 to 30 ppm
- Minimum maintenance and no dynamic calibration
- Special Freon® filter used to minimize interference from Freons, in addition to HF_3 HCl, HBr, H_2SO_4, and H_3PO_4

SPM Pyrolyzer is a compact yet easily serviceable monitor for sampling Nitrogen Trifluoride (NF_3) from locations up to 10 feet away. Sample flow, pyrolyzer heater operation and heater temperature are constantly monitored. A fault indicator is given if any of these have a problem. Pyrolysis cracks any NF_3 present into HF, which is measured using the Mineral Acid Chemcassette®.

Technical Specification

Specifications	
Detection Technique	Chemcassette® Detection
System Alarm Point	Dual level alarms typically set at 1/2 TLV and TLV
Sample time	10 seconds
Alarm Indication	Local audio/visual alarms; remote capability optional
Operating Temperature Range	32° to 104° F; 0° to 40° C
Power Requirements	115/230 VAC 50/60HZ
Warm-up requirement	Up to 30 minutes upon power up
Enclosure	Nema 4X fiberglass (basic unit)
Dimensions	4 1/2"(H) x 11 7/8"(W) x 8 1/8"(D) (36.8 x 30.2 x 20.6 cm)
Weight	20 lbs (9 kg) approximate
Detectable Gas	Nitrogen Trifluoride (NF_3) Range 2-30 ppm
Unit Part Number	MVIP1928-1

Freon is a registered trademark of E.I. Du Pont de Nemours & Co.
Chemcassette is a registered trademark of Honeywell Analytics.



MDA Scientific has developed a sophisticated range of highly sensitive gas detection equipment, designed to perform in ways that define new gas detection performance levels providing total solutions to protect people, improve production efficiency and reduce costs.

The MDA Scientific range of toxic gas detection

Single Point Monitor

The SPM overcomes the difficulty of ensuring that basic units for toxic gas monitoring are accurate and free of interference from environmental conditions or other chemicals, by using our interference-free Chemcassette® detection technique. The SPM can also be used outdoors and has heating and cooling options to suit environmental conditions.

Vertex

Vertex provides a flexible, cost-effective monitoring solution that can adapt to changing needs. Using advanced Chemcassette® software and optics technologies, Vertex can monitor from 8 to 72 points of gas detection, up to 9 gas families and more than 40 gases.

Model IR-148

The Model IR-148 detects solvents and gases such as HCFCs, HFCs and PFCs that are otherwise difficult to monitor without the effect of cross-interfering gases.

Midas®

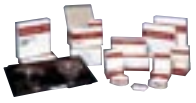
Midas® can measure virtually all the toxic and flammable gases found in manufacturing and storage applications. The range is in fact a universal transmitter design that differs significantly from the Lifeline II range which had separate passive, extractive and pyrolyzer variants with different footprints and performance characteristics.

CM4

CM4 provides monitoring of toxic gases at four locations, up to 300 feet away – detection of ppb levels of toxic gases at multiple points. Points are monitored continuously. Leaks are detected within seconds.

IN-USA

The IN-USA range of microprocessor controlled analyzers detect trace amounts of ozone (O_3) gas. Systems can be configured with relays and different signal output options for integration within life safety networks. High levels of signal sensitivity and resistance to false alarm are enabled by the use of advanced ultraviolet (UV) lamp detection systems.



Chemcassette®

The Chemcassette® detection system is the heart of an MDA toxic gas monitoring system. Chemcassettes® use a dry reagent medium to collect and analyze air to detect gas leaks. When the Chemcassette® is exposed to a target gas, it changes color in direct proportion to the concentration of gas present. MDA Scientific monitors read color intensity changes and determine the gas concentration by comparison to a known gas response pre-programed into the instrument.

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