



CM4-P Pyrolyzing gas monitor for continuous detection of Nitrogen Trifluoride

CM4-P Pyrolyzing Gas Monitor for NF_3



Feature

- Continuous Monitoring on 4 Points
- Chemcassette Technology
- Integral Freon[®] Scrubbers
- Analog and Serial Outputs
- 300'(90m) Sampling Distance
- Table, Wall or Rack Mount Versions
- High Temperature Pyrolysis
- Coiled Quartz Pyrolyzer Design
- Integral Audio and Visual Alarms

Benefit

- Total surveillance all the time
- Reliable, interference free method provides physical evidence of events
- Scrubs commonly used Freons before pyrolysis ensuring only NF_3 is detected
- Permits easy installation into virtually all annunciation and shutdown systems
- Monitors can be positioned conveniently with minimal fab intrusion
- Flexible to meet any requirement
- Ensures complete conversion of NF_3
- Heating element does not contact sample, ensuring complete pyrolysis
- Easily identifies all events

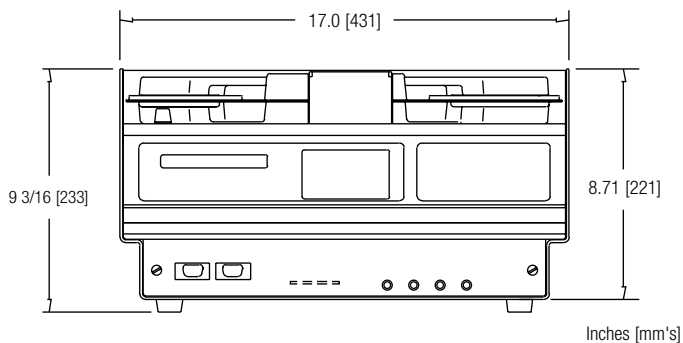
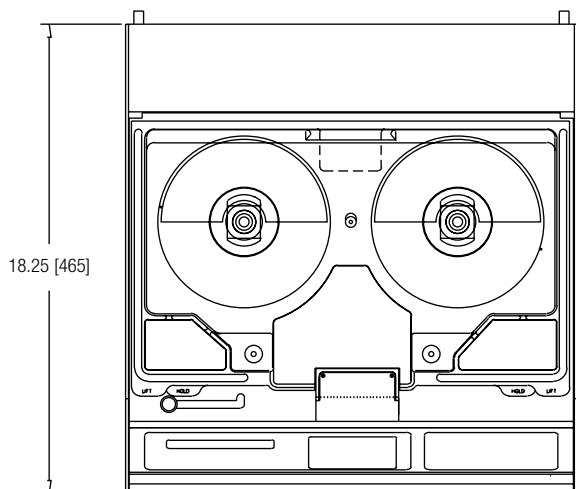
CM4-P provides reliable, continuous detection of Nitrogen Trifluoride. The unit features an integral pyrolyzer that converts NF_3 to Hydrogen Fluoride for detection on the mineral acids Chemcassette[®]. The unit features a variety of outputs. Chemcassette sensors provide 4 weeks or more of uninterrupted surveillance.



General Specification



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Detection Technique	Chemcassette® Technology via pyrolysis to HF						
Gases Available	Nitrogen Trifluoride						
CM4-P Detectable Gases	<table border="1"> <thead> <tr> <th></th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>Nitrogen Trifluoride (NF₃)</td> <td>0-50 ppm</td> </tr> <tr> <td>LDL</td> <td>1.0 ppm</td> </tr> </tbody> </table>		Range	Nitrogen Trifluoride (NF ₃)	0-50 ppm	LDL	1.0 ppm
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Nitrogen Trifluoride (NF ₃)	0-50 ppm						
LDL	1.0 ppm						
Monitoring Points	Four						
Sampling Distance	300 Ft (90m) 1/4" OD X 3/16" ID FEP grade Teflon® tubing only (Consult your local HA agent for longer distance requirements.)						
Exhaust Tubing	50 Ft 1/4" OD x 3/16" ID Polypropylene Longer distances possible with larger ID						
Display	20 character vacuum fluorescent status, alarm, and power LED's						
Keypad	16 key, sealed membrane style						
Local Alarm Indication	Audible and visual (LED) per point						
Relay Outputs	Relay contacts (500m A minimum) 2 Amps @120VAC, form C contacts. Programmable low and high levels, maintenance, watch dog, energized or de-energized, latching or nonlatching						
Current Loop Outputs (per Point)	4-20mA isolated, 4 Individual (optional) 4-20mA non-isolated, 4 individual (optional) 2-4mA range available (for fault indications)						
Serial Output	RS232 serial printer output (optional)						
Serial Communications	RS232, RS422, and RS485 (all optional)						
Additional Protocols supported	LonWorks®, (LonMark® compliant) Profibus (via 4-20mA to L2 bus)						
GUIs Supported	Intellution FIX-32, Wonderware, InTouch						
Operating Temperature	50° to 104° F (10° to 40°C)						
Weight	55 lbs (25 Kg)						
Initial Warmup	< 10 minutes						
Operating Voltages	100/110 VAC @ 50/60 Hz 230 VAC @ 50/60 Hz						
Power Consumption	5 Amps @ 110 volts (approximately) 4 Amps @ 230 volts (approximately)						



Inches [mm's]

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A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

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