

The Solution when Portable Gas Detection is Required

The **MST Portable Pyrolyzer** instrument is designed for detection of chlorine and fluorine containing gases, which are not directly detectable. The **MST Portable Pyrolyzer** instrument is comprised of three essential components, the sampling module with integrated pump for sample transportation, the Pyrolyzer for conversion of the gases to mineral acids, and the gas detection module for monitoring these gases. The instrument's self diagnostics includes monitoring of pre-set temperature and flow rate.

The **MST Portable Pyrolyzer** is the ideal solution for emergency response use as well as monitoring in laboratories, cylinder receiving areas and other locations where portable or temporary gas detection is needed.

The **MST Portable Pyrolyzer** features user-adjustable dual-level concentration alarms, LCD concentration display and both audio and visual alarm indicators. The instrument also incorporates three alarm relays that can be used to automatically activate external devices in the event a gas concentration or instrument alarm condition is detected. In addition to the alarm relays the instrument can be purchased either with a LonWorks® or 4-20 mA interface.

Continuous monitoring, fast response, ability to silence the audible alarm, battery check and the use of MST Technology's intelligent electrochemical sensor cells are further features and benefits. Every Pyrolyzer instrument is calibrated to respond to one of the available gas types listed on the following page.



Quick Facts

Applications:

- Emergency response
- Localizing gas leaks
- Equipment maintenance
- Gas bottle changes
- Laboratories

Features:

- Dual-level concentration alarms
- User adjustable alarm levels and alarm relay actions
- Audible and visual alarm indicators
- "Plug and Play" interchangeable intelligent sensor cell
- LonWorks® or 4-20 mA interface
- Sensor diagnostics

Configurations:

- FTT/R 9753-04xx
 - 4-20 mA/R 9753-02xx
- (xx = depending on the target gas)

Technical Overview

Performance specifications

Alarm settings	Dual-level
Battery life (Pyrolyzer)	1 h 30 min when fully charged
Operation temperature	-20 °C to +40 °C (-4 °F to +104 °F)
Relative humidity	20 to 90 % r.h. (non-condensing)
Pressure	700 hPa to 1300 hPa
Sampling tubing	OD 1/4 in ID 3/16 in
Response time	< 30 sec (10 m tubing length)
Operational cell life	> 1 year (under normal conditions)
Sensor service interval	6 months
Applicable standards	RFI / EMC: EN 55022 EN 50082-2
Graphic display	122 x 32 dots with back light
LED indication	Alarm, fault, power status
Acoustical alarm	Continuous / alternating buzzer signal

Facilities requirements

Electrical supply	12 V rechargeable battery
Network interface (PN 9753-04xx)	
Network	Standard LonTalk® Protocol
Data transmission	78 kBit per second
Wiring topologies	Free, (e.g. bus, star, loop or mixed)
Wiring	Shielded (tinned copper braid) 4 wire cable (2 x 2 x 1.0 mm / 17 AWG)
Alarm relay outputs	
Contacts	3 x SPST
Max. ratings	250 VAC / 30 VDC, 2 A
Analog interface (PN 9753-02xx)	
Interface	4-20 mA
Fault range	0 ... 2 mA
Warning mode	2.8 ... 4 mA @ 0.1 Hz
Maintenance mode	2.4 ... 4 mA @ 1 Hz
Wiring	Shielded (tinned copper braid) 3 wire cable (3 x 1.0 mm / 17 AWG)
Protection class	IP 30
Overall dimensions	235 x 150 x 235 mm H x W x D (9.3 x 5.9 x 9.3 in)
Weight	5.2 kg (11.5 lbs)

Detectable Gases

Di-chloro-ethylene 1.2 (DCE 1.2)
Hexafluoro-1,3-butadiene (C₄F₆)
Methyl Fluoride (CH₃F)
Nitrogen Trifluoride (NF₃)
Octafluorocyclopentene (C₅F₈)
Sulfur Hexafluoride (SF₆)

Outputs and communications

Life Safety Network – LonWorks®
Facility Computer – MST DVS Software
MST Relay Output Controller
MST Local Info Display
FMS 8700 and FMS 8710 MST controllers
PLC/SCADA Communication

Options and accessories

on request



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DS_PP_LS_0806
August 2006
Printed in Germany
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