



SPM Flex Specifications

Chemcassette® Tape-Based Gas Detector for Portable or Fixed Applications

GENERAL SPECIFICATIONS	
DETECTION TECHNIQUE	Chemcassette tape-based with advanced self monitoring optics design and K-factor multiplier options. Duty cycle options to save paper.
DIMENSIONS	Height: 13.2 in. (33.6 cm); Width: 7.2 in. (18.3 cm); Depth without handle: 6.4 in. (16.3 cm); Depth with handle: 9.5 in. (24.1 cm).
WEIGHT	9.1 lbs. (4.1 kg).
MOUNTING SCREWS	Concrete: 5/16 in x 2 in vibration-resistant stud anchor for concrete (McMaster-Carr 94475A185 or equivalent), add 0.25 in. to length when mounting bracket with sun shield. Wood: 5/16 in. x 2 in. flange head lag screw for wood (McMaster-Carr 95526A375 or equivalent), add 0.25 in. to length when mounting bracket with sun shield.
OPERATING TEMPERATURE	32°F to 104°F (0°C to 40°C) for most gases/applications.
OPERATING HUMIDITY	0-100% RH for unit (Sample RH limited per tape/calibration). Sample line requires additional hardware to remove moisture in high RH conditions where condensing may occur. The sample must be non-condensing. Dry conditions may require humidification.
FLOW SYSTEM	Automatic flow control with bypass system, higher flow at inlet to reduce sample time (internal bypass system); sample up to 100 ft, check manual for specific gases.
LOCAL ALARMS/STATUS	Visual: LEDs for alarm, normal condition, fault and external power. Audible: User selectable: Off, Low ~75 dB at 1 m, Medium ~85 dB at 1 m, High >90 dB at 1.
INTERFACE	4 large buttons, 3.5 in. Color LCD TFT display, web server. Flip screen.
DATA LOGGING	Rolling up to 3 months (15-22 sec. with no gas reading, 1-2 sec. when reading gas), Event history (1500 events – approx. 1 year).
MAXIMUM INLET/OUTLET PRESSURE DIFFERENTIAL	The overall maximum load on the pump between the inlet and the exhaust should not exceed 10" WC (24.8 mbars or 2488 Pascals).
RELAYS	250V AC, 6 A maximum.
USB	2.0 or later.
INDOOR/OUTDOOR USE	Both (the power supply provided is indoor only)
OPERATING ALTITUDES	-1,000 to 3,000 ft. above sea level: standard; 3,000 ft. to 6,000 ft. above sea level: requires adjustment by Honeywell Analytics.
INGRESS PROTECTION RATING	IP65.
EXTERNAL SWITCH OR CIRCUIT BREAKER REQUIREMENT (DESCRIPTION & LOCATION)	Meet or exceed all local codes and regulations.
VENTILATION REQUIREMENTS	Mount with no obstructions within 4 in. (10 cm) of either side or within 2 in. (5 cm) above and below the detector.
ELECTRICAL	
POWER SUPPLY	Universal Line powered (90-260 VAC 50/60 Hz) for battery charger.
POWER CONSUMPTION	~1.9 A at 24 VDC +/- 10% (including battery-charging current).
BATTERY TYPE	Lithium ion.
BATTERY LIFE	6+ hours under typical conditions – acts as battery back-up in fixed applications. Approximately 70% of its original capacity after 300 full charge/discharge cycles.
POWER ADAPTOR	Input: 90-264 VAC, 1.2A, 47-63 Hz. Output: 24 VDC, 3.75 A max.
WIRE GAUGES	Minimum: 24; Maximum: 14. AWG for relay and 4-20 mA outputs.

COMMUNICATIONS	
OPTIONS	Relays: Alarm 1, Alarm 2, Fault (user configurable for normally open/closed) 4-20mA Ethernet (with Modbus TCP/IP and web server). USB port (for memory stick configuration/data transfer). Communications connector and optional communications cable: 60 V, 5 A maximum.
4-20 MA OUTPUT DEFAULTS AND RANGES	
INHIBIT	2 mA, programmable from 1.5-3.5 mA in 0.5 mA increments.
MAINTENANCE	3 mA, programmable from 1.5-3.5 in 0.5 increments.
INSTRUMENT FAULT	1 mA or less, not programmable (will be driven under 1 mA).
OVER-SCALE	21.5 mA, programmable 21-22 mA.
4-20 MA CONFIGURATIONS	Sink, source, isolated.
STORAGE CONDITIONS	
DETECTOR	0°C to 40°C, 0-100% RH non-condensing.
CHEMCASSETTE CARTRIDGES	See the label on the Chemcassette cartridge for storage conditions.
CERTIFICATIONS	
DETECTOR	UL 61010-1, 3rd Edition, 2012-05 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - Part 1: General Requirements). CAN/CSA-C22.2 No. 61010-1, 3rd Edition, 2012-05, (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE - Part 1: General Requirements). IEC 61010-1:2010, 3rd Edition.
RFID APPROVALS	USA (FCC), Canada (IC), Mexico (IFT), Japan (IFERW), Singapore, Taiwan, Korea, China (CMIIT), Malaysia, Australia (RCM), New Zealand (R-NZ), Europe (RED).
BATTERY	UL/cUL Recognition to UL 2054 + 60950-1. IEC 62133 1st Edition CB Certification. UN Test Report to UN 38.3.
CE	EMC, LVD, ROHS, WEEE & RED.
CONSUMABLES	
CHEMCASSETTE TAPE	14, 30 or 90 day cartridges for 7 specific family gases.
DUTY CYCLE OPTIONS	Duty cycle options to conserve chemcassette tape in high background applications.
RFID LABELS	Smart radio frequency FD labels affixed to cartridges for error-proof use and quick gas selection. Chem keys no longer required.
FILTERS	Most gases require a filter. See manual for filter requirements.

Please Note:

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