



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:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

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