



## SPM Flex SPECIFICATIONS

### Chemcassette® Tape-Based Gas Detector

General Specifications	
<b>Detection technique</b>	Chemcassette® tape-based with advanced self-monitoring optics design
<b>Dimensions</b>	Height: 33.6 cm; Width: 18.3 cm; Depth without handle: 16.3 cm; Depth with handle: 24.1 cm
<b>Weight</b>	4.1 kg
<b>Mounting screws</b>	Concrete: $\frac{5}{16}$ in x 2 in vibration-resistant stud anchor for concrete (McMaster-Carr 94475A185 or equivalent), add 0.6 cm to length when mounting bracket with sun shield Wood: $\frac{5}{16}$ in. x 2 in. flange head lag screw for wood (McMaster-Carr 95526A375 or equivalent), add 0.6 cm to length when mounting bracket with sun shield
<b>Battery type</b>	Lithium-ion
<b>Battery life</b>	Approximately 70% of its original capacity after 300 full charge/discharge cycles
<b>Operating temperature</b>	0°C to 40°C for most gases/applications
<b>Operating humidity</b>	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.
<b>Flow system</b>	Automatic flow control with bypass system, 250 or 500 cc/min at tape, higher flow at inlet to reduce sample time (internal bypass system); sample up to 30 metres
<b>Local alarms/status</b>	Visual: LEDs for alarm, normal condition and fault Audible: User selectable: Off, Low ~75 dB at 1 m, Medium ~85 dB at 1 m, High >90 dB at 1 m
<b>Interface</b>	Four large buttons, 8.8 cm Colour LCD TFT display, web server
<b>Data logging</b>	Rolling up to 3 months (15 sec. with no gas reading, 1 sec. when reading gas), Event history (1500 events – approx. 1 year)
<b>Maximum inlet/outlet pressure differential</b>	The overall maximum load on the pump between the inlet and the exhaust should not exceed 25 cm H <sub>2</sub> O
<b>Relays</b>	250 V, 6 A maximum
<b>Wire gauges</b>	Minimum: 24; Maximum: 14
<b>USB</b>	2.0 or later
<b>Indoor/outdoor use?</b>	Both (the power supply is indoor only)
<b>Operating altitudes</b>	-304 m to 914 m above sea level: standard; 914 m to 1828 m above sea level: requires adjustment by Honeywell Analytics
<b>Ingress protection rating</b>	IP65
<b>External switch or circuit breaker requirement (description &amp; location)</b>	Meet or exceed all local codes and regulations
<b>Ventilation requirements</b>	Mount with no obstructions within 10 cm of either side or within 5 cm above and below the detector

<b>Electrical</b>	
<b>Power supply</b>	Universal Line powered (90-260 VAC 50/60 Hz) for battery charger & non-classified use. Battery: 6+ hours under typical conditions – acts as battery back-up in fixed applications
<b>Power consumption</b>	~1.9 A at 24 VDC (including battery-charging current)
<b>Power adaptor</b>	Manufacturer: FSP Group Model: FSP135-AAAN1 Input: 100-240 VAC, 2 A, 50-60 Hz Output: 24 VDC, 5.62 A CCN: QQQQ (E190414) Mark of conformity: UL listed
<b>Communications</b>	
	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
<b>4-20 mA Output Defaults and Ranges</b>	
<b>Inhibit</b>	2 mA, programmable from 1.5-3.5 mA in 0.5 mA increments
<b>Maintenance</b>	3 mA, programmable from 1.5-3.5 in 0.5 increments
<b>Instrument fault</b>	1 mA or less, not programmable (will be driven under 1 mA)
<b>Over-scale</b>	21.5 mA, programmable 21-22 mA
<b>4-20 mA Configurations</b>	Sink, source, isolated
<b>Storage Conditions</b>	
<b>Detector</b>	0°C to 40°C, 0-100% RH non-condensing
<b>Chemcassette cartridges</b>	See the label on the Chemcassette® cartridge for storage conditions
<b>Certifications</b>	
<b>Detector</b>	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 FCC approval for RFID board + Canadian and European
<b>Battery</b>	UL/cUL Recognition to UL 2054 + 60950-1 IEC 62133 1st Edition CB Certification UN Test Report to UN 38.3
<b>Self-declared European CE Mark on detector for:</b>	EMC, LVD, ROHS, WEEE



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.