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Detector Specifications

Size	9.1 x 2.9 x 2.2 in (230 x 74 x 55 mm) (with boot)
Weight	24.9 oz (708 g) (w/boot)
Sensor	Photo-ionization sensor with standard 10.6 eV lamp (9.8 eV lamp in MP186)*
Response Time	3 sec (t ₉₀) VOC Mode 45 sec @ 68°F (20°C) Benzene Tube Mode (MP186)
Accuracy	±3% (at calibration point)
Battery / Run Time	Rechargeable Lithium-Ion battery with 24 hours typical operation
Keypad	4 Operation keys
Sampling Pump	Built-in pump with 3 settings from 300 to 430 cc/min Sample from up to 100 ft (30 m)
Display	128 x 128 graphical LCD, 1.77 x 1.73 in (45 x 44 mm), with LED backlight for enhanced display readability
Direct Readout	Real-time reading of gas concentration (ppb, ppm, mg/m ³ , µg/m ³), PID measurement gas and correction factor, lamp on/off, Man-Down alarm on/off, battery status, pump status, datalogging on/off, wireless on/off, temperature and time
Operating Modes	<ul style="list-style-type: none"> • Continuous readout with realtime data download to PC • Individual sampling mode for Leak Detection & Repair
Alarms	<ul style="list-style-type: none"> • Audible (95 dB @ 30 cm), visual (flashing bright red LEDs), and on-screen indication of alarm conditions • High, Low, TWA and STEL alarms • Over range alarm, battery low alarm • Man-Down alarm with pre-alarm and real-time re-remote wireless notification
Datalogging Capacity	<ul style="list-style-type: none"> • Standard 12 months at one-minute intervals • Storage interval adjustable from 1 to 3,600 seconds • 9999 LDAR sample points storage
Calibration	Two/three-point calibration
Low Flow Alarm	Auto pump shutoff at low-flow condition
Charging and Communication	Charging, data download, instrument configuration and firmware upgrades on PC or laptop via Micro USB. Configuration also via BLE using mobile App on Android phone or tablet
BLE Range	10 m (33 ft) line of sight
Corr. Factors	Integrated Correction Factor list of > 700 compounds
IP Rating	IP-66/67
EMI/RFI	Highly resistant to EMI/RFI Compliant with EMC Directive 2014/30/EU
Safety Certifications	 Class I, Div 1, Group ABCD, T4  Ex ia IIC T4 Ga  II 1G Ex ia IIC T4 Ga  European Conformity
Temperature	-4° to 122°F (-20° to 50°C)
Humidity	0% to 95% Relative humidity (non-condensing)
Attachments	Durable rubber boot, color coded for different models; Tube holder for MP186
Warranty	2 Years including lamp and sensor (1 Year for 9.8 eV lamp)

Model Options

Model Number	VOC Range (ppm)	Part No.
MP181 (NEO PPM)	0.01-5,000	M011-0004-000
MP182 (NEO EXT)	0.01-15,000	M011-0005-000
MP184 (NEO PPB)	0.001-15,000	M011-0006-000
MP185 (NEO SEMI) (w/o MicroUSB)	0.001-15,000	Special Order
MP186 (NEO BENZ)* (w/9.8 eV Lamp & Tube Holder)	0.01-200 Benzene or Butadiene	M011-0013-000
	0.005-10,000 VOC	

* 9.8 eV lamp detects fewer VOCs than does 10.6 eV lamp

* Due to ongoing research and product improvement, specifications are subject to change without notice *