

0.250

The NEO is one of the most advanced handheld VOC (Volatile Organic Compound) monitors available for ppb (parts per billion) detection.

VOCs include a variety of chemicals such as benzene, alcohols, fuels, paint thinners, industrial solvents and many others, which can have short and longterm adverse health effects. Measuring these compounds is essential for worker protection in industries like oil & gas, fire & hazmat, pharmaceuticals, paints & adhesives, and many others. In addition, VOC monitoring is useful chemical process control, detecting leaks and other releases to the environment, and in measuring indoor air quality.

The NEO offers several models from the most sensitive 1 ppb to a high range up to 15,000 ppm for different applications, and a filter tube version (NEO BENZ) for benzene-specific or butadiene-specific measurements. In addition to the standard continuous read-out, a Leak Detection and Repair (LDAR) mode is included.

Novel designs of the Photo-ionization Detector (PID) and Ultraviolet (UV) lamp provide outstanding sensitivity, stability and reproducibility. Includes real-time data monitoring using mPower Suite software via cable to a PC or via Bluetooth to an Android phone or tablet.

## **KEY FEATURES**

- · Smaller and lighter weight than comparable PIDs
- Most stable ppb-level PID on the market
- Outstanding linearity over full measurement range
- Easy charging on laptop or other USB port
- USB Micro Charger; combination USB-m charging and communications cable
- · Powerful battery (run time 24 hours)

Bluetooth Low Energy (BLE) connectivity standard

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- Search Mode for LDAR Sampling
- · Filter tube version for benzeneor butadiene-selective measurements
- Large backlight graphic display
- Lamp glow indicator
- Rugged, stainless-steel housing with rubber outer boot

## **MODEL OPTIONS**

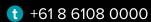
Model Number	VOC Range (ppm)	Part No.	
MP181 (NEO PPM)	0.01-5,000	M011-0004-000	
MP182 (NEO EXT)	0.01-15,000	M011-0005-000	
MP184 (NEO PPB)	0.001-15,000	M011-0006-000	
MP185 (NEO SEMI) (w/o MicroUSB)	0.001-15,000	Special Order	
MD40C (NEO DENIZ)* ((O Q a)/ Lavar 9 Tube Halder)	0.01-200 Benzene or Butadiene	NA044 0.042 0.00	
MP186 (NEO BENZ)* (w/9.8 eV Lamp & Tube Holder)	0.005-10,000 VOC	M011-0013-000	

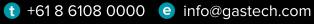
 $<sup>^{*}</sup>$  9.8 eV lamp detects fewer VOCs than does 10.6 eV lamp

SPECIFICATIO	NS Specifications subject to change without notice	
Size	230 x 74 x 55 mm (with boot)	
Weight	708 g(w/boot)	
Sensor	Photo-ionization sensor with standard 10.6 eV lamp (9.8 eV lamp in MP186)*	
Response Time	3 sec (t90) 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 $\times$ 128 graphical LCD, 1.77 $\times$ 1.73 in (45 $\times$ 44 mm), with LED backlight for enhanced display readability	
Direct Readout	Real-time reading of gas concentration (ppb, ppm, mg/m3, µg/m3), 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 Mode	Continuous readout with realtime data download to sPC Individual sampling mode for Leak Detection & Repair	
Alarms	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 remote wireless notification	

Datalogging Capacity	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 IECEx Ex ia IIC T4 Ga  ATEX II 1G Ex ia IIC T4 Ga  C 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)	









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