Sensotran

More than 50 years of
experience in gas detection

NEO PID

Handheld VOC monitor with parts per billion measurement

01 PRODUCT DESCRIPTION

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 long-term adverse health effects.

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 benzene-specific version (NEO BENZ).

Novel designs of the Photo-ionization Detector (PID) and Ultraviolet (UV) lamp provide outstanding sensitivi-ty, stability and reproducibility. Options include real-time data monitoring with a built-in wireless modem using mPower Suite application software.

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 pro-cess control, detecting leaks and other releases to the environment, and in measuring indoor air quality.

02 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
- ISM Wireless communication at longer distances and with no subscription fees
- Large backlight graphic display
- Lamp glow indicator
- Rugged, stainless-steel housing with rubber outer boot

03 APPLICATIONS

- Decontamination
- Soil remediation
- Hazmat responders
- Gas leak detection
- Plant shut downs & turn-around
- Petrochemical industry
- Oil and Gas
- Pharmaceutical Industry
- Chemical Industry

04 TECHNICAL SPECIFICATIONS

Size	9.1x2.9x2.2in(230x74x55mm) (withboot)
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 (t90)	3 seconds (t_{90})
	45 s @ 20oC (68˚F) Benzen model (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, g/m^3)
	Lamp on/off
	Man-Down alarm on/off
	Battery status
	Pump status
	Datalogging on/off
	Wireless on/off
	Temperature and time
Datalogging Capacity	Standard 12 months at one-minute intervals. Storage interval adjustable from 1 to 3,600 seconds
Calibration	Two/three-point calibration
Low Flow Alarm	Auto pump shutoff at low-flow condition
Charging and Communication	Charging
	Data download
	Instrument setup and firm- ware upgrades on PC or laptop via Micro USB
	Wireless data and alarm status transmission via built-in RF modem
Wireless Range	1,000 ft (300 m) line of sight
Correction Factors	Integrated Correction Factor list of more than 200 compounds
IP Rating	IP-66/67
EMI/RFI	Highly resistant to EMI/RFI
	Compliant with EMC Directive 2014/30/EU
Safety Certifications	**UL** Class I, Div 1, Group ABCD T4, -20˚C Tamb +50˚C
	IECEx Ex ia IIC T4 Ga
	ATEX 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)

05 ORDERING INFORMATION

Model Number	VOC Range (ppm)	Reference
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)	0.05-200 Benzene 0.005-10,000 COV	M011-0013-000

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

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