

# 正穎環境科技 空氣異味測試一

測試時間：2020 07 01

測試地點：好帝一食品有限公司(牛頭牌)

測試儀器：MP185

**NEO**

**mPower Electronics**  
Making Powerful Senses  
1-866-mPower7

## Photo-ionization Detectors







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. 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 for 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 benzene-specific version (NEO BENZ). 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.

### Features, Functions and Benefits

- 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
- Large backlight graphic display
- Lamp glow indicator
- Rugged, stainless-steel housing with rubber outer boot

## NEO Specifications

### Detector Specifications

<b>Size</b>	9.1 x 2.9 x 2.2 in (230 x 74 x 55 mm) (with boot)
<b>Weight</b>	24.9 oz (708 g) (w/boot)
<b>Sensor</b>	Photo-ionization sensor with standard 10.6 eV lamp (9.8 eV lamp in MP186)*
<b>Response Time</b>	3 sec ( $\tau_{90}$ ) VOC Mode 45 sec @ 68°F (20°C) Benzene Tube Mode (MP186)
<b>Accuracy</b>	±3% (at calibration point)
<b>Battery / Run Time</b>	Rechargeable Lithium-Ion battery with 24 hours typical operation
<b>Keypad</b>	4 Operation keys
<b>Sampling Pump</b>	Built-in pump with 3 settings from 300 to 430 cc/min Sample from up to 100 ft (30 m)
<b>Display</b>	128 x 128 graphical LCD, 1.77 x 1.73 in (45 x 44 mm), with LED backlight for enhanced display readability
<b>Direct Readout</b>	Real-time reading of gas concentration (ppb, ppm, mg/m <sup>3</sup> , µg/m <sup>3</sup> ), 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
<b>Alarms</b>	Audible (95 dB @ 30 cm), visual (flashing bright red LEDs), and on-screen indication of alarm conditions plus wireless remote alarm notification High, Low, TWA and STEL alarms Over range alarm, battery low alarm Man-Down alarm with pre-alarm and real-time remote wireless notification
<b>Datalogging Capacity</b>	Standard 12 months at one-minute intervals Storage interval adjustable from 1 to 3,600 seconds
<b>Calibration</b>	Two/three-point calibration
<b>Low Flow Alarm</b>	Auto pump shutoff at low-flow condition
<b>Charging and Communication</b>	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
<b>BLE Range</b>	10 m (33 ft) line of sight
<b>Correction Factors</b>	Integrated Correction Factor list of more than 700 compounds
<b>IP Rating</b>	IP-66/67
<b>EMI/RFI</b>	Highly resistant to EMI/RFI Compliant with EMC Directive 2014/30/EU
<b>Safety Certifications</b>	 Class I, Div 1, Group ABCD T4, -20°C ≤ T <sub>amb</sub> ≤ +50°C  Ex ia IIC T4 Ga  II 1G Ex ia IIC T4 Ga  European Conformity
<b>Temperature</b>	-4° to 122°F (-20° to 50°C)
<b>Humidity</b>	0% to 95% Relative humidity (non-condensing)
<b>Attachments</b>	Durable rubber boot, color coded for different models; Tube holder for MP186
<b>Warranty</b>	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	M011-0021-000
MP186 (NEO BENZ)* (w/9.8 eV Lamp & Tube Holder)	0.05-200 Benzene	M011-0013-000
	0.005-10,000 VOC	

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

Distributed By:

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

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測試條件：

1 Uh600 超次氯酸水生成系統 濃度：200 ppm 6.0Ph

2 上層高壓噴霧系統

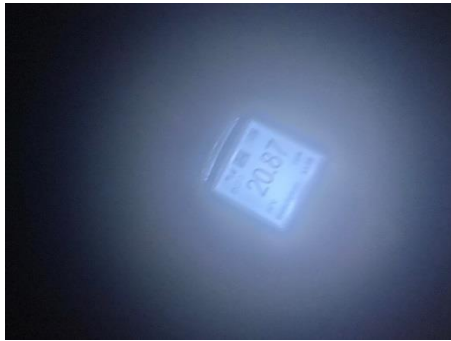
3 下層高壓噴霧系統

4 水牆系統



測試數據：

一 異味產生源頭



異味數據：20.87 ppm



二 高壓上下噴霧系統開 + 水牆系統開



煙囪上方數據 2.454 ppm



煙囪採樣口數據 2.236 ppm

### 三 頂端高壓關 其他全開



煙囪採樣口數據 2.784 ppm

### 四 水牆關 高壓全開



煙囪採樣口數據 1.171 ppm

## 五 高壓全關 水牆關



煙囪採樣口數據 6.577 ppm