

## SMART PORTABLE IAQ METER SERIES -1 (INTRODUCTION)

<< Tripod mountable, Hold function, APO function >>



- High performance two(2) microprocessors technology
- Multi-display with Temp. RH% (Option: ambient pressure )
- Features Temp. RH offset function
- Interchangeable single or Dual gas probe is selectable
- Powered by convenient alkaline AAA batteries or adaptor
- Display Temp. RH, dew point, Wet Bulb Temp. (Model 98098-series)
- Built-in electric fan and bright LEDs in sensor probe
- Features backlight function, self-calibration function
- SD card models may store more than 1GB memory
- Reliable long life SenseAir NDIR CO<sub>2</sub> sensor
- Free maintenance Sensirion Temp.RH sensor
- Superior German TVOC, Japanese CO , USA O<sub>2</sub> sensors
- Reliable TVOC sensors, PM sensor. Combustible gas sensor
- Independent inlet/outlet air source and designed with inner mechanical for particle aerosol flow direction.

### STANDARD PACKING SUPPLIED:

#### **98098/89298-series:**

Main meter , sensor probe , batteries AAA x6pcs , AC/DC adaptor , Manual, carrying pouch, protective sensor bag , soft tube (Except 98098P/98298P) .

#### **98498-series:**

Main meter, sensor probe, batteries AAAx6 pcs , AC/DC adaptor, Manual , USB cable, CD software, carrying pouch, protective sensor bag and soft tube ( Except 98498P)

#### **98598-series:**

Main meter , sensor probe , batteries AAA x 6pcs , AC/DC adaptor , manual, carrying pouch, protective sensor bag , soft tube (Except 98598P) and SD card ( 2G )

#### **98098WiFi series:**

Main meter, sensor probe, batteries AAA x6pcs , AC/DC adaptor, manual, carrying pouch, protective sensor bag, soft tube (Except 98098PWifi) and USB cable.

## SMART PORTABLE IAQ METER SERIES-2 (CODE)

### SMART IAQ meters ORDERING CODES:

98	Model code	98	WiFi	Sensor (+Temp.RH)	code1	code2	code3	code4	code5
			Option	C: CO					
0- Entry model			N/A		D: CO2				
2-99 memory points (Manually)			N/A		H: Formaldehyde				
4-32,0000 memory points (Automatically)			N/A	V: TVOC (Total Volatile Organic Compound)					
5-SD card logging (Manually/Automatically)					P: PM2.5_10				
					O: Oxygen(O2)				

**For example:** 98098C = Entry model smart CO meter with sensor probe

98498DH= USB datalogger Formaldehyde/CO2 meter with sensor probe (Dual sensor )

98098WiFiD = WiFi function smart CO2 meter with sensor probe

98598DVP = SD logger smart CO2/TVOC/PM2.5\_10 meter with sensor probe

( Multi-sensor , Large size probe )

98	Replacement Sensor Probe	98	P	Sensor	code1	code2	code3
	1			Sensor code as above : C / D / H / V / O / P			

**For example:** 98198PC = CO Sensor probe

98198PDH= Formaldehyde/CO2 sensor probe (Dual sensor )

98198PP = PM2.5\_10 sensor probe ( Large size probe )

## SMART PORTABLE IAQ METER SERIES-3 (SPECIFICATION)

98098_series	Smart IAQ meter entry series
98298_series	Smart IAQ meter with 99 points memory (Manual record )
98498_series	Smart IAQ meter with 32,000 points memory (Auto/Manualrecording)
98598_series	Smart IAQ meter with SD card storage function (Auto/Manual recording)
98098WiFi_series	Smart IAQ meter with WiFi PC/Cloud data storage function

- Connection of any digital sensor probes for IAQ (Indoor Air Quality) application, and simply and conveniently to calibrate the sensor probes without hand held instrument, each probe compensates temperature automatically.
- New sensor probe PM2.5\_10 (Model 98198PP) with larger size, may combine with other parameters

### SPECIFICATION

Measure	Range	Resolution	Accuracy	Sensor type
CO	0~999ppm	1ppm	$\pm 10\%$ of rdg or $\pm 10$ ppm	Electrochemical
CO2	0~9999ppm	1ppm	$\pm 75$ ppm+5% of rdg	Non-Dispersive IR
HCHO/CH2O	0.00~5.00ppm	0.01ppm	$\pm 25\% + 0.03$ ppm(Meets NIOSH)	Electrochemical
O2	0.0~30.0%	0.1%	$\pm 10\%$ of rdg	Electrochemical
TVOC	0~999ppm	1ppm	$\pm 10\% + 10$ ppm	Electrochemical
PM2.5	0~999ug/m <sup>3</sup>	0.1/1 ug/m <sup>3</sup>	$\pm 10\% + 10$ ppm(Cal.to aerosol)	Photo-IR
PM10	0~999ug/m <sup>3</sup>	0.1/1 ug/m <sup>3</sup>	$\pm 10\% + 10$ ppm(Cal.to aerosol)	Photo-IR
Temp.RH	0~50C/0.0~99.9%	0.1C/F,0.1%	$\pm 0.6$ C(Temp.), $\pm 3\%$ (RH)@25 $\pm 3$ C	CMOSense chip
Power	AAA batteries x6 pcs OR AC/DC adaptor			
Size(Meter)	162mm(L)x58mm(W)x32mm(H)			
Size(Probe)	145mm(L)x33mm(W)x33mm(H) , 200mmx68mmx33mm ( PM probe)			

## SMART PORTABLE IAQ METER SERIES-4 (SINGLE SENSOR)

**SMART & NEW!**

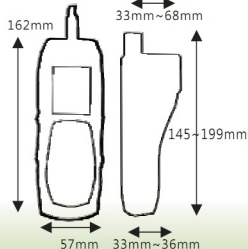
**Sensor probe  
Interchangeable**

↓ Start-up single gas  
LCD display

Normal measurement  
LCD display



Both sensor probes are  
compatible to the main  
meter



Sensor probe (Larger  
size) is for the models  
with PM measurement

- The smart portable IAQ meter features easy and simply change the sensor probe to measure the air quality or air pollution concentration wherever desired to know.
- Sensor probe is able to be designed with single gas sensor or dual gas sensors or at most 3 gas sensors, no matter how many gas sensors in the sensor probe, the main meter is the same.
- The temperature/ humidity sensor is designed at the top of the sensor probe which measures the ambient Temp.RH% instead of the sensor probe which attach with soft tube for extension measurement area.
- Main meter automatically diagnoses the sensor probe and displays the parameter icon "CO.CO2.HCHO. O2. VOC ..." on the LCD
- Meter is powered by either AAx6pcs batteries or AC/DC adaptor (Long time recording required)

## SMART PORTABLE IAQ METER SERIES-5 ( DUAL-MULTI SENSOR)

Start-up dual gas  
LCD display →



**SMART & MULTI-SENSOR!**

↓ Normal measurement LCD display



Smart to choose two or above sensors in one includes Temperature, Humidity measurement sensor probe by following , welcome any custom combination for different application. Sensor probe interchangeable , meter automatically diagnose and display on LCD.

The most cost effective series with professional performance on the market.

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98598_series	Smart IAQ meter with SD card storage function (Auto/Manual recording)
98098WiFi_series	Smart IAQ meter with WiFi PC/Cloud data storage function

## SMART PORTABLE IAQ METER SERIES-6 (MOBILE APP INTRODUCTION)

- WiFi function models features web APP (Windows ) and Mobile (iOS , Android) APP , convenient and easy to find air quality level readings from Cloud storage ( See below photos )

Mobile APP  
Setting  
function:



Portable Smart IAQ (Temp.RH.CO.CO<sub>2</sub>.HCHO.PM<sub>2.5\_10</sub>.O<sub>2</sub>.O<sub>3</sub>.TVOC..)meter

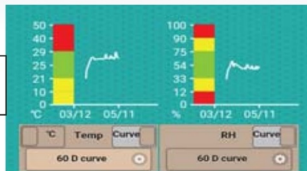
# SMART PORTABLE IAQ METER SERIES-7 (98098 WIFI FUNCTION)

**98098WiFi series** model is an unique portable WiFi function design with two purposes ( Portable around measurement & Fixed on wall or ceiling for long time recording ) IAQ meter :

**SMART WIFI!**

- 1) Portable around : Measure anywhere , anytime with battery operation.
- 2) Fixed on wall with tripod device : Long time recording wireless sending data to Cloud or PC via WIFI APs.

Mobile APP shows  
1 hour /30 days  
/ 60 days curve



Mobile APP shows  
1 hour / 8 hours  
/ 24 hours digits



Cloud or PC software: Set up users / devices , View digits/ curves , Alert ...

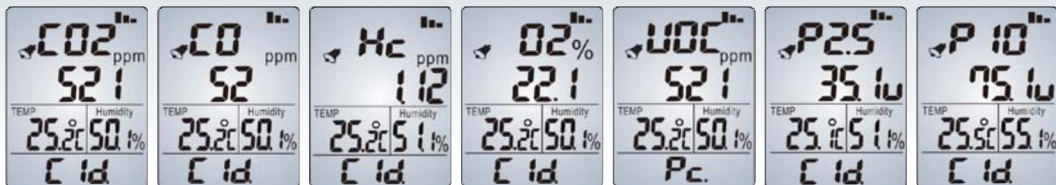
Example: Fixed on wall or ceiling for WiFi purposes



序	日期	時間	溫度(Temp) °C	濕度(RH) %	二氧化碳(CO2) ppm	顆粒物(PM10) µg/m³
1	2019/11/18	13:02:34	25.0	65.7	16.1	20.9
2	2019/11/18	13:01:34	25.0	65.7	16.1	20.9
3	2019/11/18	13:00:34	25.0	65.8	16.1	20.9
4	2019/11/18	12:59:34	25.0	65.7	16.1	20.9
5	2019/11/18	12:58:34	25.0	65.8	16.1	20.9
6	2019/11/18	12:57:32	25.0	65.7	16.1	20.9
7	2019/11/18	12:56:33	25.0	65.8	16.1	20.9
8	2019/11/18	12:55:33	25.1	65.6	16.2	22.0
9	2019/11/18	12:54:33	25.1	65.6	16.2	22.0
10	2019/11/18	12:53:32	25.1	65.5	16.2	22.0



## SMART PORTABLE IAQ METER SERIES-7(98098WiFi FUNCTION)



C Id

Stands for sending data to Cloud storage

Pc.

Stands for sending data to Personal data server(PC)

..

Stands for the strength of WiFi signal

P2.5 ug/m<sup>3</sup>  
35

P2.5=PM2.5, "u" stands for the unit of "ug/m<sup>3</sup>"

**Sensor probe  
Interchangeable**



- The smart portable IAQ meter features easy and simply change the sensor probe to measure the air quality or air pollution concentration wherever desired to know.
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- Main meter automatically diagnoses the sensor probe and displays the parameter icon "CO.CO<sub>2</sub>.HCHO. O<sub>2</sub>. VOC ..." on the LCD. Meter is powered by either AAAx6pcs batteries or AC/DC adaptor (Long time recording required)