



# Handheld Particulate Pollution Meter

HHTP21



- ✓ Fine Particulate Matter (PM2.5) Measurement
- ✓ Temperature and Humidity Measurements
- ✓ Health Index (0 to 9) Detection and Alarm
- ✓ PM2.5 Time Weighted Average Reading
- ✓ Data Hold and Max/Min with Time Stamp Function
- ✓ Six Color LED Indication Air Quality at Good/Moderate/Poor
- ✓ Preset Warning Point of Buzzer Alarm, LED and Alarm Output
- ✓ Manual Data Memory and Read Function



HHTP21, shown smaller than actual size

Particle pollution comes from many different types of sources. The HHTP21 is ideal for monitoring particulate pollution in department stores, burning plants, petrochemical facilities, thermal power plants, restaurants, hospitals, mining facilities, metal refineries, commercial and public buildings. Fine particle (2.5 micrometers in diameter and smaller) are found in power plants, industrial processes, vehicle tailpipes, wood stoves, and wildfires. Coarse particles (between 2.5 and 10 micrometers) come from crushing and grinding operations, road dust, and some agricultural operations. Particle pollution is linked a number of health problems, including coughing, wheezing, reduced lung function, asthma attacks, heart attacks and strokes. It also is linked to early death.

## Specifications

### Measurement Range:

**PM2.5:** 0 to 500  $\mu\text{g}/\text{m}^3$   
**Humidity:** 1 to 99% RH  
**Temperature:** -20 to 60°C (-4 to 140°F)

**Resolution:** 0.1  $\mu\text{g}/\text{m}^3$ , 1 ppm, 0.1% RH, 0.1°C, 0.1°F

### Accuracy:

**PM2.5:**  $\pm 10\%$  of reading  $\pm 10 \mu\text{g}$   
**Temperature:**  $\pm 0.8^\circ\text{C}$ ,  $\pm 1.5^\circ\text{F}$   
**Humidity:**  $\pm 3\%$  RH (at 25°C, 30 to 80% RH),  $\pm 5\%$  RH (at 25°C, 0 to 20% RH and 80 to 100% RH)

### Sensor Type:

**PM2.5:** Photodiode sensor  
**Humidity:** Precision capacitance sensor  
**Temperature:** Thermistor sensor

### Response Time:

**Humidity:** 45 to 95% RH  $\leq 1$  min  
 95 to 45% RH  $\leq 3$  min  
**Temperature:** 10°C/2 sec.

### Sampling Rate:

1 sample/second  
**Data Memory Capacity:** 39 sets (direct reading from LCD display)

**Operating Temperature and Humidity:** 0 to 60°C, below 95% RH

**Storage Temperature and Humidity:** -10 to 60°C, below 70% RH

**Power Supply:** Four 1.5V LR-6 "AA" size batteries, AC adaptor (included)

**Battery Life:** Approx. 8 hour

**Dimensions:** 165 L x 93 W x 75 mm D (6.5 x 3.7 x 3")

**Weight:** Approx. 380 g (13.4 oz)

## To Order

Model No.	Description
HHTP21	Handheld particulate, humidity and temperature meter

Comes complete with 6 "AA batteries, AC adaptor and operator's manual.