



Datasheet

RS PRO PM2.5 AIR QUALITY MONITOR

Stock number: 174-9558

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FEATURES

- Fine particulate matter (PM2.5) measurement
- Volatile organic compounds (VOCs) measurement
- Temperature and Humidity measurements
- Health index (0 ~ 9) detection and alarm
- PM2.5 time weighted average reading
- VOCs time weighted average reading
- Data hold and MAX/MIN with time stamp function
- Six-color LED indication Air Quality Index Category
- Preset warning point of buzzer alarm, LED and alarm output
- Manual data memory and read function
- Auto data record and USB interface to PC

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SPECIFICATIONS

| | |
|---|--|
| Measurement range | PM2.5 : 0 to 500 $\mu\text{g}/\text{m}^3$ VOCs : 0 to 50 ppm Humidity : 1% to 99% R.H. Temperature : -20°C to +60°C (-4°F to +140°F) |
| Resolution | 1 $\mu\text{g}/\text{m}^3$, 1ppm, 0.1% R.H., 0.1°C, 0.1°F |
| Accuracy | PM2.5 : $\leq 50 \mu\text{g}$: $\pm 5 \mu\text{g}$ $> 50 \mu\text{g}$: $\pm 10 \%$ of reading VOCs : $\pm 10 \%$ of reading ± 1 ppm Temperature : $\pm 0.8^\circ\text{C}$, $\pm 1.5^\circ\text{F}$ Humidity : $\pm 3\%$ R.H. (at 25°C, 30 to 80% R.H.) $\pm 5\%$ R.H. (at 25°C, 0 to 20% R.H. and 80 to 100% R.H.) |
| Response time | PM2.5 : ≤ 1 min Humidity : 45% R.H. to 95% R.H. ≤ 1 min 95% R.H. to 45%R.H. ≤ 3 min Temperature : 10°C/2 sec. |
| Sampling rate | 1 sample/second |
| Data memory capacity | 39 sets. (Direct reading from LCD display) |
| Data logger capacity | microSD CARD 4 GB |
| Alarm output | Open-collect output. Input impedance: 490 Ω Maximum applied Voltage: 24V DC Maximum drive current: 50mA DC |
| Operating temperature and humidity | 0°C to 60°C, below 95% R.H. |
| Storage temperature and humidity | -10°C to 60°C, below 70% R.H. |
| Power supply | Four 1.5V LR-6/AA size batteries, AC adapter |
| Battery life | Approx. 5.5 hour (LCD backlight ON and DC FAN ON) |
| Dimensions | 165mm(L) \times 93mm(W) \times 75mm(T), (6.5"L \times 3.7"W \times 3"T) |
| Weight | Approx. 380 g (13.4 oz) |
| Accessories | Instruction manual, Battery, PC software, USB connecting cable, AC adaptor DC6V 1000mA. |

| Air Pollution Regulation | WHO | | | | European Union | USA | | Canada | Australia | Japan | South Korea | Hong Kong | China | | Thailand | Taiwan | |
|--------------------------------|-------------------------|------|------|------|----------------|---------------|------------|--------|-----------|-------|-------------|-----------|---------|---------|----------|--------|----|
| | IT-1 | IT-2 | IT-3 | AQG | | United States | California | | | | | | Class 1 | Class 2 | | | |
| PM2.5 $\mu\text{g}/\text{m}^3$ | Yearly average | 35 | 25 | 15 | 10 | 25 | 12 | 12 | - | 8 | 15 | - | 35 | 15 | 35 | 25 | 15 |
| | Daily average (24-hour) | 75 | 50 | 37.5 | 25 | - | 35 | - | 30 | 25 | 35 | - | 75 | 35 | 75 | 50 | 35 |