

## SAS (Stand Alone System)

### SPECIFICATION

**Power Requirements:** 200-240V, 50Hz/100-127V,60Hz

**Operating Range:** 0-30°C, 15-90%RH

**Power:** International Mains 120-240VAC 50-60Hz

**Weight:** 14.5Kg

**Dimensions:** 225mm x 330mm x 200mm .

**Software :** Pre-installed Windows XP professional and PPMonitor SAS exclusive management software

**Data Storage:** 180Gb HD(>5 years of data)

**Sampling Rate:** 7 parameter data values every minute

**Built In Display:** 6.5" TFT screen, 640(W) x 480(H) pixels

### TEMPERATURE & HUMIDITY MODULE

**Type:** Interchangeable digital CMOSens®

**Range:** -40 to +128°C, 0–100% RH

**Accuracy:** ±0.4°C, ±3% RH  
Optional upgrade to ±0.3°C, ±1.8% RH

**Calibration:** Calibrated to ISO/IEC17025 by manufacturer. Traceable by the 'National Institute of Standards and Technology' and the 'National Physical Laboratory'.



Real time, simultaneous measurement of eight customer specified IAQ Parameters.

Sensor range options include but are not limited to:

- ▲ Temperature
- ▲ Humidity
- ▲ Carbon dioxide
- ▲ Carbon monoxide
- ▲ Sulphur dioxide
- ▲ Nitrogen dioxide
- ▲ Ozone
- ▲ TVOC

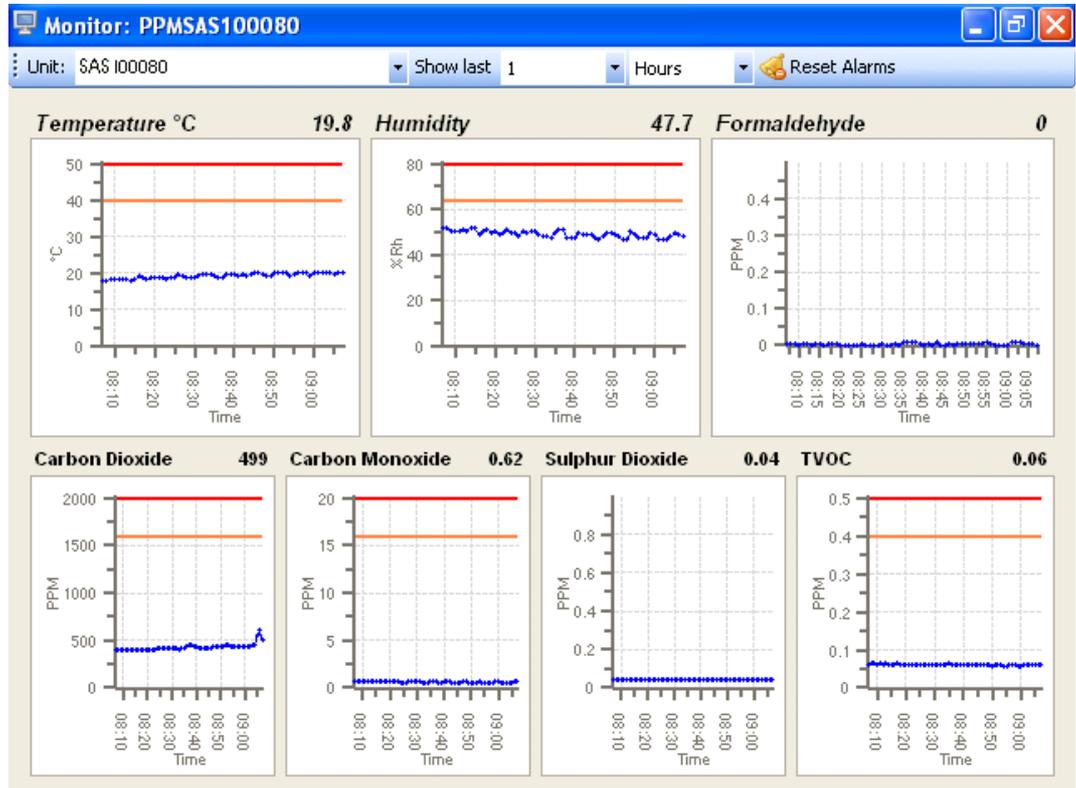
The PPMonitor SAS system has been developed to allow flexibility and freedom in monitoring IAQ levels, and to ensure that monitoring is thoroughly accurate, applicable and cost effective for every individual situation. In recognition of the need for flexible and adaptable monitoring, the portable Stand Alone System simultaneously measures up to 7 IAQ parameters that have been specifically chosen by the systems user.

The built in software package allows the user to instantaneously access results, reports, and scheduling options, providing a combination of highly accurate sensor readings, and comprehensible buildings systems management. Designed to give a visual representation of indoor air quality, the system provides a dual environmental benefit; real-time functions enable immediate warnings of the presence of harmful toxic gases, protecting employees and the public. Analysis of the recorded data through the systems inbuilt software also allows more efficient management of resources and energy.

Applications:

- ▲ Measurement of air quality in any non-industrial indoor environment
- ▲ Investigation of Sick Building Syndrome and other building related illnesses
- ▲ HVAC system performance studies
- ▲ Evaluating air control measures
- ▲ A compact solution for IAQ legislation

## Software



The SAS system comes supplied with the PPMonitor software suite, allowing the complete undertaking of buildings management operations from day one. The software provides full password protection and network access to the data. Continuous or daily scheduling of sampling is possible allowing total automation for the duration of the sampling period. Full automation and storage of all operations and results, with added feature of history note log, allowing the previewing and annotation of recorded operations.

The PPMonitor software enables the data to be viewed graphically, produce reports and statistical data, run schedules as well as alarm functions and notifications for more effective and economical building management. It is possible to set up an Ethernet Access Point (EAP) to the wireless network which allows the wireless modules to be accessed from any location world-wide via the Internet provided the necessary internet address, firewalls and gateways are enabled on the local network.

The software is able to generate graphs, collate data to produce reports, and calculate statistical data such as STEL and TWA. Stylish, lightweight and compact model, allows placement in different areas of a building. System software allows the long-term logging and recording of different areas results have been taken from. A choice of threshold levels can be selected to best suit individual operations.



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### SENSOR OPTIONS

**Temperature (CMOSens technology):** range:-40°C to +128°C resolution:0.01°C

**Humidity (CMOSens technology):** range:0-100%, resolution:0.01%

**VOC's (PID):** range:0-20ppm, resolution:<0.01ppm

**Formaldehyde (Electrochemical):** range:0-10ppm, resolution: 0.001ppm

**Carbon Dioxide (NDIR):** range:0-5000ppm, resolution:1ppm

**Carbon Monoxide (Electrochemical):** range:0-100ppm, resolution:0.1ppm

**Nitrogen Dioxide (Electrochemical):** range:0-20ppm, resolution:0.01ppm

**Sulphur Dioxide (Electrochemical):** range:0-5ppm, resolution:0.01ppm

**Ozone (Electrochemical):** range:0-1ppm, resolution:0.01ppm