

MINI IAQ MONITOR htV

A wireless htV solution which can be used to monitor airborne Formaldehyde or Glutaraldehyde levels in a building.

Also provides monitoring of temperature and humidity levels within the area. Additional relay option to allow control of alarm and air conditioning systems.

MINI IAQ MONITOR SENSOR

Built in temperature and humidity module, and available with up to 3 IAQ parameter sensors. These include but are not limited to:

- Nitrogen Dioxide (NO₂)
- Carbon Monoxide (CO)
- Carbon Dioxide (CO₂)
- Sulphur Dioxide (SO₂)
- Total Volatile Organic Compounds (TVOC's)
- Ozone (O₃)
- Ammonia (NH₃)
- Methane (CH₄)
- Water (H₂O)
- Smoke
- Motion Sensor

MINI IAQ MONITOR TEMPERATURE & HUMIDITY

Allows for monitoring of temperature and humidity levels within a building. Can be networked with other mini wireless units and IAQ monitors on the Zigbee mesh network.

MINI IAQ MONITOR ALARM

A dedicated wireless system with 3 inbuilt relays to control various outputs such as audible/ visual alarm systems and other third party systems. Also provides monitoring of temperature and humidity levels within the area. Can be networked with other mini wireless units and IAQ monitors on the Zigbee mesh network.

Mini IAQ Profile Monitor



- Available in one of four main configurations:
 - * Mini IAQ Monitor htV or Glutaraldehyde
 - * Mini IAQ Monitor Sensor
 - * Mini IAQ Monitor Temperature & Humidity
 - * Mini IAQ Monitor Alarm
- Zigbee Wireless Technology
- Supplied with the PPMonitor software for a complete graphical representation of IAQ parameters
- Small compact design, easy to install
- Wall mountable using standard VESA wall bracket

The Mini IAQ Profile system has been designed to give a visual representation of indoor air quality in a building, as part of the buildings management standards in relation to conditions such as Sick Building Syndrome. Since a great number of units can be networked, the system can show precise changes in concentration of selected IAQ parameters in various locations over time.

The Mini IAQ Profile Monitor system enables the user to control and run several different wireless IAQ sampling units — all communicating together via the sophisticated and reliable ZigBee wireless mesh system. The mesh network system is cost effective, easy to install and simple to use: the nodes which make up the mesh automatically configure the optimal signal route. Other advantages of a wireless mesh system are that it is self healing meaning that the network can still operate even when a node breaks down or a connection goes bad. As a result, a very reliable network is formed.

The size of the wireless mesh can be easily extended by simply adding new Mini IAQ Monitor units or even the larger IAQ monitor units, as each one is also a router for it's neighbors. In areas where no IAQ monitoring is required then dedicated "Repeater" nodes can be used for the same purpose. Power Amplified Wireless Modules are also available, these have more powerful antennae to considerably increase the transmission distance and consequently reducing the need for repeaters and simplifying the network.

The Mini IAQ Unit is able to monitor temperature and humidity as well as up to 3 different IAQ parameters. The Manager PC connects to the mesh network via a special node which is capable of receiving and transmitting information to each IAQ Profile Monitor. The Manager PC can view, run and control the real-time monitoring and data logging of air quality in a building at the click of a button.

SPECIFICATION

Mains Powered: 12v DC via external DC adaptor with 2.5mm diameter jack plug

Operating Range: 0-45°C, 15-90%RH

Dimensions:
145mm x 145mm x 55mm
(Houses 3-5 sensors)

Easy to Install: Master Node connects easily to the Manager PC via the USB port. PPMonitor Wireless Unit easily wall mounted via VESA standard bracket.

Software: Built in PPMonitor Wireless exclusive management software for Management PC

Sampling Rate: Up to 3 parameter data values every minute.

ZIGBEE SYSTEM

Low Power: 2.4GHz ISM Band

Receiver: Different Antennae Options For the different network coverage required

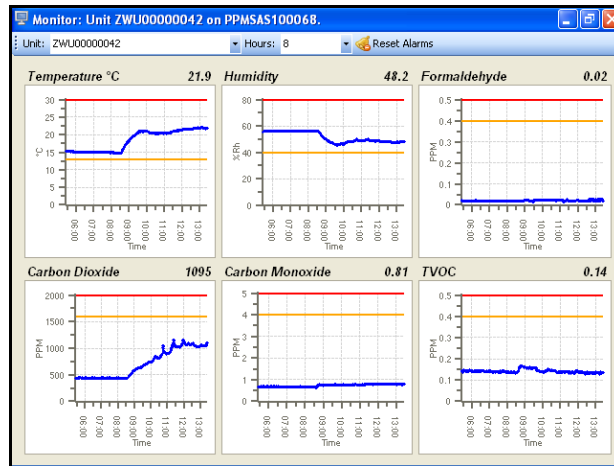
Data Rate: 250kbit/s over the air data rate Channels 16 channels (802.15.4 Channel 11 to 26)

Power: +3dBm Output power (+5dB Boost mode)

Sensitivity: High sensitivity of -98dBm typical at 1% packet error rate

Memory: 128k flash, 5kbytes of SRAM

Software



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.

Please note: Requires Windows XP Professional Edition or Windows 7 Enterprise Edition (32-bit version)

The Mini IAQ Profile Monitor incorporates a variety of advanced gas sensor technologies to monitor the target gases including NDIR, PID and Electrochemical and is available in four main configurations, all of which can be networked together.

Sensor Options

- Formaldehyde
- Glutaraldehyde
- Nitrogen Dioxide (NO2)
- Carbon Monoxide (CO)
- Carbon Dioxide (CO2)
- Sulphur Dioxide (SO2)
- Total Volatile Organic Compounds (TVOC's)
- Ozone (O3)
- Ammonia (NH3)
- Methane (CH4)
- Water (H2O)
- Smoke
- Motion Sensor

SERVICES AVAILABLE

- Technical Support
- Hardware Support
- Factory Calibration & Service
- Upgrades
- Bespoke System Development



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