

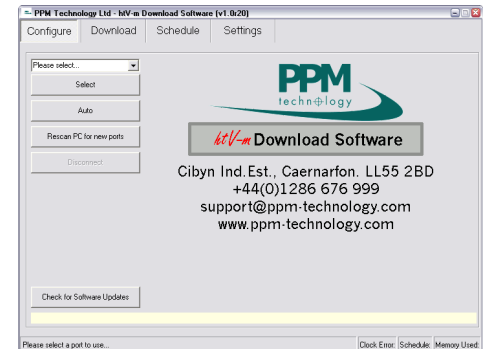
Issue 4

February 2011

New software update for Formaldemeter htv-m

The new **v1.0r20** release of the PPM Technology htV-m Download Software is now available at: http://ppm-technology.com/ftp/Distribution/HandHeld/Install_htV-mDownloadSoftware_v1.0.0.20.exe
Alternatively press the "Check for Updates" button on the software start-up screen.

The updates are mainly fixes to bugs or problems, which have been identified by the PPM team or have been reported by the software's users. PPM is continuously updating our software to improve the performance and usability.



PPM IAQ Monitors to be showcased at MIECF 2011

PPM Technology will have a booth at the European Pavilion of the upcoming Macao (SAR of China) International Environmental Co-operation Forum (MIECF), to held on the 31st March to the 2nd April at the Venetian Macao Resort Hotel.

MIECF is a high-powered annual platform to promote solutions for a low carbon future, and sustainable urban development in South China.

Our instruments will be showcased to "green" industry professionals and decision makers across the region. Representing PPM at MIECF will be Dr Ken Wai and Peter Williamson of Hinds International.

Carbon Monoxide poisoning threat in Ice Rinks receives national TV exposure in the US.

The issue of Carbon Monoxide problems in ice rinks has received national television exposure in the US, 'The Today Show' on MSNBC recently broadcast an investigation into the threat of Carbon Monoxide poisoning in ice rinks.

Carbon Monoxide levels can reach dangerous levels in these environments as the pollutant is released by the 'ice resurfacing vehicle' or 'ice edger'. PPM and our partner in the United States, Joel Anderson of *Precision Quality Consulting* have supplied a number of Mini IAQ Profile Monitor units to various ice rinks/arenas with the aim of providing a safe environment for users and employees of ice arenas. As knowledge and concerns of this issue grow, we expect to see greater demand and interest in our instruments in these environments.

The video can be viewed here -

<http://today.msnbc.msn.com/id/26184891/vp/41508607#41508607>

PPM to host Workshop at MCERTS 2011

PPM Technology are to host a workshop at the MCERTS 2011 exhibition, the 2 day exhibition is held on the 30th and 31st of March in Telford, England. Our workshop will have the title "*Continuous Air Monitoring for Indoor Environments*". Laura Roberts will introduce our IAQ Monitoring system to delegates; and will demonstrate the advantages and applications offered by a continuous monitor of the indoor environment. We hope the exhibition will be an opportunity for PPM to make new contacts and generate interest in our instruments. Our 30-minute workshop will be held at 9:45 on Wednesday the 30th in room 4.

If you have any relevant stories, including any recent or upcoming exhibitions, application stories or customer testimonials that you want to be included in the next newsletter please feel free to contact us:

gevans@ppm-technology.com

PPM team attend 'Wireless Sensing for Smart Buildings' event.

Members of the PPM team attended the 'Wireless Sensing for Smart Buildings' event held at Coventry University. The event was well attended with the delegates from the building industry and major property owners, including house builders, housing associations, data centers and retailers. The event explored the information requirements of the building community and considered the state-of-the-art, suitability and opportunities for Wireless Sensing Networks.

It was an opportunity for PPM to make new contacts in this industry, which we anticipate will lead to some promising partnerships. It was also an opportunity to meet with end users – such as building professionals and facility managers, who ultimately require training in monitoring and management of IAQ in buildings.

New market opportunities with long-standing partners Tennants.

Stuart Alexander of Tennants Distribution Ltd visited PPM Technology this week, constructive discussions were held regarding future market opportunities for PPM and Tennants. Our co-operation with Tennants extends to the founding of PPM Ltd in 1993; and has continued following the founding of PPM Technology Ltd in 1999. They are the longest serving distributor of PPM's products in the UK.

Tennants can trace its origins back to the late 1700's when founded by chemist and industrialist Charles Tennant. They are the largest *independent* distributor of chemicals within the UK. The Tennants group has many divisions and subsidiaries' including Synthite Limited, a manufacturer of chemicals, including Formaldehyde and Paraformaldehyde. PPM Technology range of instruments is part of the Tennants Instrument Division, based in Northfleet, Kent.

Our partnership with Tennants has been primarily associated with our range Formaldehyde detection instruments. We are now also co-operating in an exciting new project for monitoring the indoor environment in swimming pools. We have recently supplied 2 monitoring units for use in a swimming pool environment, a large monitoring unit containing sensors for Temperature, Humidity, Chlorine, Ammonia, Carbon Dioxide and Carbon Monoxide, and a Mini IAQ Monitor with sensors for Temperature, Humidity, Carbon Dioxide and Carbon Monoxide.

Chlorine products are used in swimming pool to prevent growth and spread of bacteria and viruses. Nitrogen pollution produced from organic derivatives. (sweat, urine) The combination of the Cl₂ & N₂ containing compounds reacting together can produce Trichloramine (NCl₃). NCl₃ can produce the same effect as Tear gas and is found in dangerous levels in indoor pools. We are currently sourcing sensors for NCl₃ that could be used in this environment.

Tennants specialize in chemicals and testing kits used in swimming pools; with their expertise in the field we are confident there will be considerable opportunities for the product in this environment.

**Some PPM staff
members
enjoying the
rearranged
Christmas
party!!**



**PPM wishes all readers a Happy
Chinese New Year.**

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Why Monitor IAQ?

Indoor air quality (IAQ) relates to a number of environmental factors within a building that can impinge on the comfort, health or work performance of the building's occupants. Monitoring IAQ is vital because it is estimated that the average person spends 90% of their time breathing "indoor air".

Poor IAQ is a contributing factor to both short and long-term health issues, these can lead to decreased productivity, absenteeism, and in some cases possible litigation. Common symptoms associated with poor indoor air quality can include eye, nose, and throat irritation, headache, nausea, dizziness, and fatigue. In some cases exposure to indoor air pollution can lead to acute and chronic respiratory illnesses.

What can contribute to a unhealthy Indoor Air Environment.

Gas and particulates in the air are the principal sources that contribute to unhealthy IAQ. Common factors that can lead to a harmful indoor environment can include inadequate ventilation, poorly maintained HVAC systems, non-vented gas heaters, airborne pollutants carpet fibers, fungal spores, vehicle exhaust emissions, building materials, carpeting, furniture, chemical pollutants (light industrial chemical substances, cleaning substances), Ozone emissions from printers and photocopiers etc. Another problem is recent energy conservation measures that have led to airtight building construction that can create problems with IAQ. The concentrations of pollutants can also be amplified by factors such as poor ventilation, humidity, and temperature.

Benefits of using PPM Technology's Wireless IAQ Profile Monitor for monitoring Indoor Air Quality.

For accurate understanding of a building's indoor air quality, it is advised to simultaneously monitor multiple indoor air quality parameters including gases, temperature and humidity. PPM Technology's Wireless IAQ Profile Monitor enables instantaneous monitoring of a number of parameters within a single instrument. PPM Technology's monitor utilizes a combination of different sensor technologies to enable rapid response, high sensitivity and stability and excellent accuracy.

The IAQ Profile Monitor can continuously detect, measure and record up to 8 customer specified parameters, including but not limited to Temperature, Humidity, Nitrogen Dioxide, Carbon Monoxide, Carbon Dioxide, Sulphur Dioxide, Ozone, Ammonia, Formaldehyde, TVOC's, Natural Gas and Smoke.

Functions and applications

- IAQ complaint investigation and analysis.
- HVAC system performance analysis.
- Health and comfort assessment.
- Labour saving and cost-effectiveness.
- Energy efficiency.
- Ensuring safety of building occupants.
- Comply with national safety regulations and laws.

*** Almost any other type of building not listed can also be monitored by this system, please contact us for more information.**

Environments and industries

- Hospitals and other care facilities.
- Laboratories, Clean-rooms and Research facilities.
- Office Buildings and work environments
- Industrial Plants and Factories.
- Residential Buildings, educational facilities and other public buildings.
- Cultivation farms and the industrial agriculture sector.
- Museums, galleries, cultural preservation environments.
- Ice Rinks and Arenas.
- Indoor swimming pools.

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