

**AMS Christmas Break Closure**

AMS will close for the Christmas break at 2.00 pm on Friday 23rd of December and re-open on Monday January 9th at 9.00 am. For calibration bookings prior to the shutdown the deadline is Friday the 17th of December.

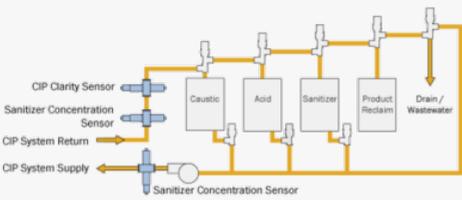
**HygroCal100 from Michell Instruments****The all-in-one validation package for your humidity sensors**

The HygroCal100 provides a stable test chamber to quickly evaluate the performance of relative humidity sensors across a wide range of 5 to 95% relative humidity. Its intuitive 4" touch screen display and interface allows the probes under test to be fully integrated with the chamber and user interface (UI), so up to 7 probes with a variety of diameters and output signals can be powered, monitored and logged simultaneously by one self contained unit. The HygroCal100 allows you to automate your calibration procedure with ease, and will provide a complete logged output of all probes under test against the reference instrument in csv format, ready to download to your USB memory device. Coupled with an Optidew Vision chilled mirror hygrometer, the HygroCal100 becomes a powerful transportable calibration facility. The HygroCal100 can optionally be fitted with a high capacity battery pack, which can power the generator and 7 sensors under test for up to 8 hours. The unit can also run from mains power while charging the battery.

[More info...](#)**Limited Time Offer Michell Instruments HygroCal100**

10% Additional discounts offered on the Michell Instrument HygroCal100. Valid for order placement from December 1 till December 31. Available to customers within our sales territory.

**Check It Now!**



## Clean-In-Place (CIP) instrumentation from optek

### Clean-In-Place (CIP)

Many manufacturing facilities require (CIP) systems to clean tanks, pumps, valves, filters, heat exchange units as well as the process piping. The use of CIP increases plant efficiency, improves safety and ensures product quality. However, achieving these benefits requires monitoring and control of the CIP process to optimise heat, cleaning agents and water consumption.

### CIP Optimization

Precise process interface detection with a single channel NIR absorption based photometer (optek AF16-N or AS16-N) is typically installed at the CIP return points where it is beneficial to measure the exact interface on rinse water. Inline photometers can also be used to monitor the sanitiser concentration to control the CIP process, for validation routines, and in some cases, to monitor the residual after cleaning.

### Sanitiser Concentration

Chemical concentration has always been a difficult measurement using traditional conductivity sensors. Changes in pH, temperature, or other unexpected compounds can all affect conductivity devices. To compensate for these issues, plant operators often overdose chemicals to ensure adequate sterilisation, then extend line flushes to ensure it is removed.

### Sanitiser Optimisation

By installing an optek UV / VIS or NIR absorption sensor on the feed line, exact concentrations are monitored, optimising performance, while reducing chemical usage. These sensors are also compensated to eliminate any influence from turbidity or the presence of other compounds. In addition, with immediate response times, sanitiser and water usage is greatly reduced.

### CIP Application Benefits:

- Reduced water usage
- Reduced sanitizer consumption
- Reduced wastewater costs
- Documented sanitiser concentration
- Reduced operating costs
- Increase in available process time
- Rapid return on investment

[More info](#)

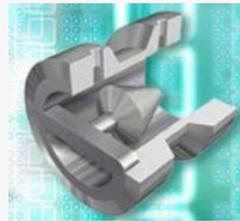
## McCrometer Wafer Cone Flow Meter THE FAST CHANGE REPLACEMENT METER

Engineers with small line size processes rely on the versatile Wafer-Cone Flow Meter for superior accuracy and repeatability. The space-saving unit is easy to install. It's ideal for tight-space installations and retrofits. It requires almost no maintenance. The Wafer-Cone further reduces life-cycle costs with a long life.

The flangeless Wafer-Cone® is compact, less costly and easy to install. The cone conditions the flow so the Wafer-Cone requires minimal upstream or downstream pipe runs and can be installed virtually anywhere in a piping system. Ideal for small line sizes and with no moving parts, no replacement parts or scheduled maintenance, this meter offers a low cost of ownership and long life.

**Unlike an orifice plate, the Wafer-Cone has no sharp edges so extensive maintenance and inspection are not required**

[More Info...](#)



### ECONOMICAL, NO MAINTENANCE GAS AND LIQUID MEASUREMENT SOLUTION

The Wafer-Cone flow meter uses the same revolutionary principles as the V-Cone. Its self-conditioning means little or no upstream or downstream piping runs are required. The Wafer-Cone features a flangeless design. The element is easily replaced to accommodate changing flow conditions. Recalibration is not required. There are no moving parts to

maintain. The unit combines exceptional flexibility with high performance. The Wafer-Cone is the perfect low-cost solution to tough flow measurement problems in water & wastewater, chemical, food & beverage, plastics, pharmaceuticals, district HVAC, textile, power and oil / gas production.

### APPLICATIONS

- Natural Gas Wellheads
- Gas, Water and CO2
- Injection
- Gas Lift
- Fuel Gas
- Separator Discharge
- Biogas Reactors
- Cooling Systems
- Plant HVAC
- Process Gas Lines and More



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AMS News



Digital Pressure Calibrator PC705M

Welcome to the November issue of the AMS newsletter.

October and November saw some large orders coming in for Beamex, FCI and HiTech, with some of the other product lines not far behind. All in all it looks like that AMS will have another successful year and to look forward to 2017. We are already aware of some exciting new products releases in 2017 for various product lines and it is our intention to keep our customers well informed via this newsletter. One of the new products released is the a new Beamex hand pump, Model PGC, which is a pneumatic pressure and vacuum generator capable of easily generating -0.95 to 35 bar, conveniently switchable between vacuum and pressure by using the in-built pressure / vacuum selector and capable of very fine pressure adjustment using a fine adjustment valve. Demo units have been ordered to show our customers.

FCI will also be releasing new products in the near future following on from their compact thermal flow meter line earlier this year. New products will also be released by Michell Instruments, HiTech and some others.

**High accuracy and stability** - is achieved by use of a piezoresistive transducer with a built-in temperature compensation. Unlike some other pressure calibrators, accuracy is maintained when decreasing pressure which makes the unit ideal for verification of hysteresis. All units are calibrated in positive as well as in negative direction.

**Compact and rugged** - originally designed for use on offshore drilling rigs, the pressure calibrators offer reliable performance under the most severe conditions.

**Portable** - the low weight of only 8 kg makes the units ideal for one-site calibration.

**Traceable** - each unit is calibrated against precision pressure equipment which is traceable to national standards and each unit is supplied with a calibration certificate.

**Simple and easy** - test pressure is established by the integrated hydraulic pump, and the calibration pressure is read on the graphical LCD display. There is no need for fragile reference gauges.

[More info...](#)

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