

## Badger Meter - Solutions for many industries

Badger Meter's impeller products and water flow sensors are used to measure liquids in a variety of industrial and commercial markets. These insertion and inline impeller meters serve a wide range of markets including irrigation, HVAC, energy management, water treatment, fire fighting apparatus and general industrial.

Additionally, Badger manufactures and markets Btu monitors and transmitters that are compatible with virtually all energy management systems. The Impeller Products division also offers wireless RF flow sensors to the turf and agricultural irrigation markets utilizing its years of expertise in the Automatic Meter Reading market. Data acquisition and data management systems are also offered either by direct wiring or via a wireless mesh network technology.

Specific examples of uses for Badger Meters are:

- Irrigation - use of monitors to measure water use to meet government regulations at golf courses, parks and stadiums, even if private well or pond are used.

- HVAC - similar monitors in a single panel to display and control both flow and pressure or other parameters in a building.

- General industrial - Chemical or treatment processes that use an injection process to add one fluid to another for dilution requirements, cleaning requirements, and anti-freeze adding for cooling/heating processes. Other applications: adding liquid vitamins and nutrients to feed water for livestock, adding formaldehyde to water for resin regeneration or biological storage fluids, adding color dye to water for textile, food processing, inks, and other color additive mixtures, and fluoridation injection into drinking water systems.

- Energy Management - a low cost monitor for metering hot or cold systems.

The benefits of Badger Meter's impeller products can be found across many industries.



## Kanomax - Digital Dust Monitor

The [Kanomax Dust Monitor 3443](#) is a compact and high quality instrument ensures highly accurate dust measurements via a user-friendly & intuitive interface.

Applications include office, school, hospital, manufacturing, laboratory, and other applications where measurement of contaminants is required. It measures particle concentration of PM 10.

Ideal for IAQ Investigations, Industrial Hygiene, Occupational Health & Safety, Contamination Exposure Monitoring, Manufacturing Process Control

Features: particle size range: 0.1 - 10µm, Measuring range: 0.001 - 10 mg/m<sup>3</sup>, Data logging up to 100,000 measurements, USB interface for data transfer



Benefits: Compact and light weight unit, More than 24 hours run time with Li-ion battery, Capable of analog and digital output, Useful tripod mount, Rubber protector and Shoulder strap included

**New Product!**

### Free Webinars

August 19, 12 pm:

*IR Gas Detection Technology with Draeger  
How it works and how to use it*

To participate, [www.gotomeeting.com](http://www.gotomeeting.com), use code 744-672-210

September T/B/A, 12 pm:

*Flow Insertion Meters with  
Badger Meter/Data Industrial*

To participate, [www.gotomeeting.com](http://www.gotomeeting.com), use code T/B/A  
Questions: [eta@etaassociates.com](mailto:eta@etaassociates.com) or call (978) 532 1330.

## ETA Associates

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## McMillan - Gas Consumption Measurement for Billing Purposes

McMillan products can be very helpful in a variety of facilities management companies where utilities or other items are split between multiple departments. A combination of several McMillan products can easily solve this problem - a 250 Multifunction Display, 50K Gas Thermal Mass FLO-Snsor and 50-C-X Cable Assembly.

For example, a central system supplies Nitrogen to buildings throughout a university campus. Each laboratory will be charged for the amount of gas consumed. A flow sensor and display are needed to record flow total at different locations.



McMillan Multifunction Displays indicate flow rate and total. The internal 12 volt power supply provides power to the sensor by means of the cable assembly.

Nitrogen flows from the supply station to the laboratory. Flow is measured by the Thermal Mass FLO-SENSOR and recorded by the Multifunction Display.

The Model 250 Multifunction Display is user friendly and can be programmed to indicate flow and total in cubic centimeters, liters, cubic feet or cubic meters. The end user can toggle between rate and total by pressing one of the panel buttons. The optional 250-11 Alarm Output Card can be used to set an alarm if the flow rate or total exceed a specified amount. The Model 50K Thermal Mass FLO-SENSOR is non-invasive, compact in size and reasonably priced. NIST Traceable calibration and recalibration service are available from McMillan Company. A combination of FLO-SENSOR and DISPLAY technologies provide the customer a high performance low-cost system for their flow measurement needs.



## Draeger Sensors - Remote Calibration Capabilities

In many industrial and commercial facilities where gas detectors are used, they are often located up high, on ceilings or duct work, positioned in key areas over equipment or where ever is appropriate to meet safety requirements.

Unfortunately often these sensors are positioned in areas which are inconvenient or just plain difficult to access. The result is either a labor intensive effort to get to the sensors or sensors are not calibrated as often as required. As you know, use of a ladder or man lift



requires two or three employees which greatly increases the man hours required to calibrate the sensor. Or, if they aren't calibrated regularly, it means your safety equipment is not up to regulations.

Draeger has a solution for this problem with their

Dual Condulet assembly which allows the user to install a sensor for combustible gases and vapors, at a location away from the transmitter electronics. This remote installation permits easy setup when the sensor must be located in a dangerous or awkward position.

The sensors are installed where appropriate in an explosion proof box. Then the electronics can be installed at eye level where they can be easily accessed - up to 33 ft (10m) away - using their Dual Condulet assembly. If necessary a piece of Tygon tubing can be run from the electronics to the sensor so calibration gas can be sent the sensor. The Polytron 2 XP Ex and the Polytron FX transmitters are appropriate for this remote installation.

The competition offers no solutions for this type of problem or offers expensive alternatives. The solution from Draeger is simple, affordable, and easy to install.

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