

Badger Meter - Impeller Products and Water Flow sensors

Badger Meter's impeller products and water flow sensors are used to measure liquids in a variety of industrial and commercial markets. These include a wide range of markets: irrigation, HVAC, energy management, water treatment, waste water, water conditioning, process water, chemical, semiconductor, textile, pulp & paper, and food & beverage. They offer solutions for flow control, leak detection, bulk transfer, dispensing, batching, and blending.

Products available include:

- Full featured stainless steel or bronze body insertion flow meters
- Bronze, stainless steel and plastic flowmeters for pips of 2.5" or greater diameter
- Meters with plastic and metal service tees for pipes 1/2" - 4" diameter
- Compact inline style impeller flow meter
- Wireless flow sensor

- Series of analog 4-20mA and scaled pulse transmitters
- Data acquisition system
- Flow and BTU meters
- BTU transmitters
- Wireless RF flow sensors for turf and agricultural irrigation



Free Webinars

July 30, 12 pm:

Applications for Mass Spectrometry with Ametek; Operating Theory and Successful Apps.

To participate, www.gotomeeting.com, use code 459-232-650

August 19, 12 pm:

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

To participate, www.gotomeeting.com, use code 744-672-210
Questions: eta@etaassociates.com or call (978) 532 1330.

Percival Scientific - Chambers for Plant Tissue Culture

Percival Scientific offers a range of chambers for several applications including their line of Plant Tissue Culture chambers, available in several models. Chambers are designed as stand-alone units or as two level units to allow for separate growing environments within one small footprint.

All of their Plant Tissue Culture Chambers minimize condensation on Petri dishes with the following features:

- Air diffuser with slow vertical airflow which insulates shelf level experiments from heat generated by the underlying light fixture
- Fixed lamp banks
- Precise temperature control across your choice of 4,5 or 6-slide-out shelves
- Intellus Ultra Controller allows you to control temperature, humidity (optional), CO2 (optional) and lighting.



- Intellus Web Server (optional) lets you program and monitor your growth chamber from your desk, laptop or phone.

Model CU-30L2 is one of their newest. It was specifically designed for plant cell culture:

Temp Range: (All lights on)	10 - 44± 0.5
Interior Space Volume:	9.7 ft ³ (0.3 m ³)
Total Shelving Floor Area:	6.1 ft ² (0.6 m ²)
Maximum Growing Height:	7.1". (18.1 cm)
Exterior Dimensions:	46.1"h x 31"w x 23.8"d 117.2cm h x 78.7cm w x 60.3cm d
Light Intensity: (6" from lamps)	up to 235
Shelf Count:	2

Additional chambers are available for: Drosophila, Arabidopsis, Biological Incubators, Dew Formation, Environmental Control Rooms, Low Temperature, Reach In Plant Growth, and Seed Germination.

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Cease Fire - A Safe Replacement For Your Halon Based System

In 1994 the importation of new Halon was banned in the US as part of the Clean Air Act as it is an Ozone depleting agent. This regulation has served to limit the supply of Halon for all uses, but there still is a need for Halon in critical areas and in the recycling market. It is currently legal to continue to use existing Halon based fire suppression systems, and to repair or recharge them using recycled Halon. However the EPA recommends that Halon based fire suppression systems be replaced and the Halon be recycled for use in more critical areas. Additional information on this issue can be found online at the EPA's [website](#).

It is expected that at some point the federal government will mandate the removal of all Halon based fire suppression systems and it will become expensive to do so. Currently as there is a demand for recycled Halon, it is possible to sell the Halon contained in existing systems and reduce replacement costs.

A solution to this challenge is [Cease Fire's](#) dry modular fire suppression systems. Cease Fire has been in the fire suppression business since 1986 and have been involved in Halon system replacement since 1994. Their modular fire suppression systems allow for simple, noninvasive change over from current Halon systems. All 3 surfactant choices (powder, dual agent, gas) are non-toxic, non-

conductive, and non-corrosive; and are validated safe for occupied spaces. Clean up is as simple as vacuuming. Cease Fire fire suppression systems are ideal for situations where property is valuable, but vulnerable, and would be damaged by water; or for remote locations where water is not available. The systems allow for rapid response, within 4-5 seconds; protect valuable assets without the use of water; and address the hazard of fire re-ignition. Cease Fire units don't require costly service contracts or annual inspection as piped in systems require. The pressure gauge confirms operation in one glance.



Cease Fire systems can be installed to address single, heat activated, stand alone applications; complex, networked, multiple unit systems that are activated automatically from smoke detection equipment; manual pull station devices; rate of rise heat detection; or complicated laser detection. Any level of sophistication you might want to integrate into a Cease Fire dry modular fire suppression system is available and possible as a replacement for old Halon bases systems.

If you want a safe replacement solution for a Halon based system look no further then Cease Fire.

H2Scan - Hydrogen Specific Sensing Solutions

[H2Scan](#) offers a solution to the many issues related with hydrogen sensing technologies and their limitations. Whatever your need, H2scan's hydrogen specific sensing systems are uniquely able to detect hydrogen against virtually any background gases without false readings or expensive support equipment required. State-of-the-art leak detection, process gas monitoring, or both!

This solid-state technology developed at the U.S. Department of Energy Sandia National Laboratory - and now commercialized for the first time by H2scan - is able to detect hydrogen in air down to 15 ppm concentration over a wide range of temperatures without cross-sensitivities to other substances.



The Hy-Optima systems for process analysis offer:

- In-line, real-time hydrogen specific measurements
- Sensitivity: 0.5% to 100% hydrogen by volume
- Operates with or without oxygen
- Process gas stream temperatures up to 100°C
- Available as an in-line process monitor or intrinsically safe process monitor

The Hy-Alerta Hydrogen Safety Solutions provide:

- Hydrogen-specific, solid state sensors
- No false hydrogen readings
- No risk of saturation in high hydrogen concentrations
- No Cross sensitivities to combustible gases
- 10 year product life expectancy

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