

Ametek Dycor - Mass Spectrometers

Dycor ProLine and ProMaxion process [mass spectrometers](#) are designed for the compositional analysis of process gases and process control. These quantitative on-line process analyzers are equipped with all required sample switching and pumping equipment.

Dycor Quadrupole Mass Spectrometers are designed with proprietary Dycor electronics and a quadrupole mass filter to provide the latest technology for gas analysis. A quadrupole mass spectrometer uses four stainless steel rods to filter masses and is a nice combination of speed and at a relatively low cost so that it is suitable for many types of jobs.

Applications include: residual gas analysis, thin film deposition, reactive sputter control, vacuum

furnaces, atmospheric and environmental sampling, gas compositional analysis, and process gas analysis.

Additional areas where they can be used are: ranging from UHV through Atmospheric Pressure Sampling; Open Ion Source RGA for Ultra High Vacuum; Thin Film/Semiconductor/PVD; Enclosed Ion Source Analyzers for Atmospheric Sampling, Reactive Gases and CVD.



Free Webinar - July 30, 12 pm:

Applications for Mass Spectrometry with Ametek Operating Theory and Successful Applications

Questions: eta@etaassociates.com or call (978) 532 1330.

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

Perma Pure - Gas Conditioning Products

[Perma Pure LLC](#), provides dryers, filters, coalescers, specialty scrubbers and complete sampling systems for gas conditioning applications which are used in medical, industrial and scientific applications.

The core technology at Perma Pure is Nafion®, a Dupont co-polymer that is highly selective in the removal of water. Perma Pure manufactures Nafion into tubing of various diameters to optimize the transfer of water through the Nafion. The water moves through the membrane wall and evaporates into the surrounding air or gas in a process called pervaporation. This process is driven by the

humidity gradient between the inside and the outside of the tubing. In addition to drying and humidifying, their products can be used as ion exchange membranes and specialty separation membranes that take advantage of the unique properties of Nafion.

Baldwin Environmental, a leading manufacturer and service provider of stack gas emission monitoring equipment, is now part of Perma Pure. The product lines include heated filter probes, electronic water condensers, sample conditioning systems, and flow control drawers.

Industrial Applications: Gas sample conditioning for process monitoring or environmental compliance monitoring. Stack gases must be conditioned to convert hot, wet and dirty gases into the cool, dry and clean samples required by analyzers.

Scientific Applications: Exploitation of the electrochemical and ion exchange properties of Nafion, as well as sample conditioning for laboratory analysis.

Al Wilshire

It is with deep regret that we announce the passing of Al Wilshire. Al was with ETA Associates for 15 years before retiring May 28 to battle an aggressive form of cancer. He lost that battle on June 7. Al was known throughout our industry as a man of integrity with an incredible level of technical knowledge. He will be missed by all who knew him.

ETA Associates

119 Foster Street, Bldg. # 6

Peabody, MA 01960

Tel: (978) 532-1330

Fax: (978) 532-7325

www.ETAassociates.com



Draeger - Solutions for Refrigeration Issues

[Draeger Gas Detection Systems](#) provides a full range of solutions for the refrigeration and related industries.

Draeger's proprietary sensor technology provides features that no other manufacturer can match - longer life (typically at least twice the life of any competing sensor); broader operating temperature, pressure, and humidity ranges; true predictive maintenance features (notification 30-60 days before a sensor will fail), and better stability to avoid false alarms.



Draeger now offers an economical and easy to install ammonia sensor for refrigeration vent lines using their Polytron FX or Polytron XP Ex. There are both High Concentration and Low Concentration sensors available, in either a general purpose or explosion-proof rated housing, that mount directly in a 2" NPT Tee on the vent line. The transmitter can also be mounted remotely from the sensor.

DTF-991 - Uses a semi conductor style sensor for the monitoring of Fluoro-carbon based gases as used in the refrigeration industry, Freon production plants, and aerosol production.



Polytron 2 XP Tox - an explosion proof gas detector for continuous monitoring of toxic gases and Oxygen in ambient air. The transmitter converts the signal from an electrochemical sensor to a 4 to 20 mA analog or HART® or RS 485 digital signal output. The unit is designed for one-man calibration, and offers a variety of diagnostics and self test features.

Polytron TX - The Draeger Polytron TX is an economical, microprocessor-based gas detector for continuous monitoring of toxic gases and oxygen in ambient air. Non-intrusive calibration and maintenance is performed using a magnetic wand to access the software through the enclosure window

- no need to open the enclosure (and obtain special area permits) to perform routine calibrations.

Polytron 7000 - I.S. transmitter with a modular design - highly flexible: Measures toxic gases and oxygen, plug and play sensors, offers true predictive maintenance feature.



Polytron 3000 - High measuring quality alongside very simple mounting and very easy operation. Intrinsically safe, ideally suited to the industrial use of measuring toxic gases and oxygen.

Pointgard II - A microprocessor controlled, low cost, "all in one" gas monitor and alarm station for continuous monitoring of selective toxic gases and oxygen



Polytron 7200 - Explosion proof infrared transmitter for monitoring CO2. Reliable in the harshest industrial conditions - 5 year warranty, expected life of 20 years. Drift-free optics, 4 beam technology, no calibration requirement.

IR CO2 - Infrared transmitter for continuous measurement of CO2 concentration in the ambient air.

Variogard - low cost 'bus' transmitter for monitoring toxic gases, including ammonia, in ambient air.



Flame 5000 - Flame detection on the basis of a live video signal. Using a color video signal, the Flame 5000 detects characteristic properties of flames by means of its digital signal processing and software algorithms. The Draeger Flame 5000 is approved for use in explosion-hazard areas according to ATEX, IECEx and FM/CFM..



Flame 1300-2300 - Flame detection using UV/IR and UV-IR technologies with reliable detection of flames and high immunity against false alarms:

Additional controllers, accessories and custom products are available for the refrigeration industry and other related applications.



ETA Associates

119 Foster Street, Bldg. # 6

Peabody, MA 01960

Tel: (978) 532-1330

Fax: (978) 532-7325

www.ETAassociates.com