

Controllers - *The Difference between Percival chambers and the competition*

Percival Scientific offers several software packages to control their chambers. These are available on their Arabidopsis, Dew Formation, Reach In Plant Growth, Seed Germination, Stability Testing, Tissue Culture Chambers and Walk In Plant Growth Rooms, Incubators, and Specialty Chambers

The Intellus Ultra controller is capable of controlling temperature, humidity, CO2 and lighting events. The controller is a single-board electronic solid-state design with vacuum fluorescent display and ten-key membrane touch pad control. Programs can be created and run in three different type of programming modes: diurnal, 24-hour, and non 24 hour circadian mode.

Webserver with Gateway Device allows control any Percival chamber remotely using a Windows based PC or Palm Treo™ 700 WX smartphone. The Intellus Web server is accessed using Internet Explorer 6.0 or greater (requires network or internet connection to chamber).

The Intellus Webserver with Touchscreen is a

RKI - *Eagle 2 Portable 6 Gas Monitor and Paper Tape Colorimetric Gas Monitors*

ETA Associates now offers products from RKI Instruments - their new Eagle 2 hand held gas detector and their paper tape monitors.

Equipped with features that are not available on competitive units, the EAGLE 2 is a powerful instrument that does more than just offer the standard confined space protection for LEL, O2, H2S and CO. Available features include a PID sensor for detecting high or low ppm levels (0-50 & 0-2,000) of VOC gases; % volume capability for CH4 and H2 using a TC (thermal conductivity) sensor; PPM or LEL hydrocarbon detection at the push of a button; infrared sensors for CO2 (ppm or % volume), methane or hydrocarbons in LEL and % volume ranges; methane elimination feature for environmental applications; and a variety of super toxic gases.

RKI's paper tape transmitters utilize



powerful management system that allows you to precisely and effectively control, monitor and collect data from Percival chambers.

And, WeatherEze is a revolutionary program that offers two powerful software options for chamber control. A Simulated Environment option - select any location on the globe. A Realtime Control option - select real-time control for any location.

Free Webinars

November 9, 12 pm:

Emissions Testing and Boiler Efficiency with Portable Analyzers

To participate, www.gotomeeting.com, code 670-863-283

November 11, 12 pm:

Understanding sensor technologies with Portable Gas Instruments

To participate, www.gotomeeting.com, use code 492-803-499

December 14, 12 pm:

Gas Chromatography: How it works and if it is right for your application

To participate, www.gotowebinar.com, use code 257-802-427

highly sensitive colorimetric tapes to achieve interference free detection at low PPB and PPM levels of a wide variety of gases. Each model is equipped with easily replaceable tapes that are specific to the gas being monitored and with a digital display showing the type of gas and concentration in either PPM or PPB.

Available tapes include: Toxic Gas • High Sensitivity Formaldehyde Gas • High Sensitivity Toxic Gas for Octafluorocyclopentene, Perfluorobutadiene, or Hexafluoropropylene • High Sensitivity Toxic Gas for Phosphine, Silane, Diborane, Arsine, Disilane, Hydrogen Sulfide, Phosgene, Chlorine, and Hydrogen Selenide • High Sensitivity Toxic Gas • High Sensitivity Formaldehyde Gas • High Sensitivity Formaldehyde

ETA can integrate these transmitters into a complete fixed gas detection system



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Delta F Moisture - Analyzer for Specialty Gas Applications

Delta F has introduced a new moisture analyzer, the DF-745SG, as part of their DF 700 Series family. It brings the extraordinary capabilities of the DF-700 Series analyzers to applications in the specialty gas industry as well as allied applications requiring the accurate measurement of trace moisture levels in gas mixtures. This combination of high sensitivity-100ppb LDL-with broad range -100ppm- at an attractive price means that high-value specialty gas operations can now be controlled to ensure high yields economically with a DF-745SG analyzer.



The DF-745SG is a sophisticated process analyzer that has application software specifically designed for blending specialty gases involving single gases and mixtures with up to eight components drawn from a database of 13 standard background gases. The user can pre-define gas mixture templates for routine blends (with up to 30 templates) or define

a custom mixture using the front control panel. The analyzer allows the user to add custom gases to the database using a simple data collection procedure. The analyzer collects production data that identifies the components and volumes in a mixture as well as the date, time and moisture content of the blend. Based on the same proven design tradition as Delta F's oxygen and moisture instruments the DF-745SG expands the range of applications that can now afford this capable technology.

Features: Unsurpassed capability and performance: 100ppb sensitivity with very high accuracy; 100ppb low detection limit (LDL); No field calibration necessary; A wide dynamic range from 0.1ppm to 100ppm (linear); Ambient operating temperature of 10 to 40°C; Fast speed of response, <10 minutes to reach 90% of an upward step challenge; Fast upset recovery, <5 minutes to recover from high ppm upset to within 1 ppm of previous stable reading

New Product!

Nafion technology from Permapure - What it is and how it works.

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, Nafion products can be used as ion exchange membranes and specialty separation membranes that take advantage of the unique properties of Nafion.

Nafion tubing is very stable at high temperatures. Its chemical resistance allows samples containing high concentrations of very corrosive gases like hydrogen fluoride or hydrogen chloride to be dried or processed. In addition to the Nafion tubing, most Perma Pure dryers



and humidifiers include a shell to contain the purge gas as well as fittings for gas connections to the gas stream and purge lines.

Dryers and humidifiers with single strands of Nafion tubing tolerate any gas stream that its fittings tolerate. Dryers and humidifiers with Nafion tubing bundles are somewhat more sensitive due to the epoxy resin used to channel the gas stream into each tube.



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