



Chromalox[®]

PRECISION HEAT AND CONTROL

Chromalox can put energy in and take it out, as well as measure it!

Load banks and power test equipment

Chromalox, the world leader in electric process heating, is also a leader in building load banks and power test equipment. Usually electric heating equipment puts energy into a system to raise its temperature. Sometimes, applications require taking energy out of a system instead of putting it in. Chromalox has the expertise to carefully measure and monitor the power from a generator or other equipment and then, if required, dissipate that energy.

A recent project involved using a Chromalox type CWG hot water heat transfer system to monitor and dissipate high-

voltage DC power. The package was capable of dissipating over 100 kW of DC energy and carefully monitoring and logging data using a National Instruments data logging system. The system was totally integrated and came as a skid-mounted package including tight tolerance heaters, a water pump and complete controls. The user simply plugged the DC power

into the special high-volt DC connectors supplied with the skid and plugged the monitoring system into their computer system for data analysis.

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EDP Portable Load Bank
Energy Dissipation Unit

Announcing the 2008 Siemens Automation Summit

A Users Conference

July 23-25 Chicago, IL

Join Dittman & Greer at the 2008 Siemens Automation Summit, from July 23-25 at the Navy Pier in Chicago. The conference will feature presentations from industry experts and analysts, plus "best practice" customer case histories, detailing the continuing benefits of Siemens products. By attending this year's Summit, you'll learn how to increase your production efficiency, optimize your plant and improve process control.

Gain insider knowledge from industry experts on subjects such as:

- Industrial Security
- System/equipment integration
- Migration and life cycle management
- Performance measurement and optimization
- Product tracking and traceability
- Quality management
- Engineering and design
- Compliance with emerging industry standards and justifying the value of automation
- Service and support
- Maintenance and asset management
- Understanding and optimizing plant performance
- Safety of human, machine and processes
- Enterprise integration

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Chromalox Introduces New Impedance Heating System

Chromalox impedance systems are safe, versatile, user-friendly heating systems for process heating applications requiring closely controlled process temperatures. Pre-engineered and constructed with carefully matched components, these systems



Impedance Heating System

provide easy installation and trouble-free operation in the end-user's application.

Impedance style heating, through the Joule effect, uses the pipe itself as the heating source. This allows uniform heating around the process with minimal impact on the installation site – no piping modifications are required!

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Announcing the 2008 Siemens Automation Summit

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Experience the conference that will allow you to develop and share strategies for successful life cycle management of your systems. The 2008 Siemens Automation Summit will provide you with a winning combination of knowledge, ideas and proven product solutions to grow your business. You'll be able to get your company involved in discussions of industry best practices, targeted training and strategy sessions and in-depth presentations by technology and manufacturing experts. Specific formats include product tips and tricks, workshops, user application stories and discussions of product roadmaps, with plenty of time for providing your input to the future direction of our products.

According to past attendees, one of the most valuable portions of past conferences has been the Solution Showcase. To continue the tradition started ten years ago, attendees will be treated to these live demonstrations of new products and technologies. The Solution Showcase is a technology exhibit where users can speak with the product experts in an informal hands-on environment about their particular applications, as well as see the latest technology in action. This interactive exhibit will truly bring to life the benefits that can be achieved from the Siemens Totally Integrated Automation platform.

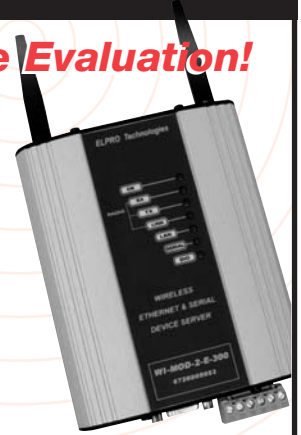
We hope to see you at the Summit!

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Wireless Ethernet

- 900MHz and 2.4GHz (WiFi) models
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- Three levels of security (WEP, AES, Proprietary)
- Most powerful transmitter available (300 MW)

Complete Line of Cables and Antennas

- Dipole, collinear and Yagi, mounting hardware, surge suppressors and coaxial cables
- 1, 5, 20, even 60 miles is possible!

Put Weidmüller Wireless to work for you. Contact Dittman & Greer today for more information about these great wireless solutions.

Two Heads are Better Than One

Euchner's Solenoid-Locking STP Twin and Non-Locking SGP Twin Safety Switches

Two doors – one safety switch! That's the concept behind Euchner's STP Twin and SGP Twin Safety Switches. Instead of mounting (and wiring) two switches, mount one switch with two rotation heads for adaptive installations. Both the Euchner STP Twin and SGP Twin Safety Switches will reduce safety modules and are ideal for monitoring and interrupting the safety circuit, depending on the position of the machine

guard. In accordance with NFPA 79, these switches have positive opening contacts designed to fall to a safe state.

For more information on these safety switches, please contact Dittman & Greer, or visit Euchner's website at www.euchner-usa.com.



Detect. Protect. Select. *Even During Washdown Cleaning!*

SICK is a global leader in providing innovative factory automation solutions to the food and beverage industry. In order to provide solutions that endure harsh cleaning and other extreme environmental conditions found in this industry, SICK offers a wide range of products that are IP 66, IP 67, IP 68 and/or IP 69K rated, including:

- Detection components such as sensors
- Protection devices, such as safety light curtains
- Selection products, such as bar code scanners and smart vision systems

SICK Factory Automation Products must go through rigorous testing to withstand typical environments for the food and beverage industry. These environments include:

- Chilled (39°F): Dairy, Food Processing, Beverage
- Wet: Dairy, Food Processing, Beverage
- Dusty: Package Handling (e.g. Carton Machines)
- Hot (135-160°F): CIP Systems, HPLV Systems

Contact Dittman & Greer for further details on SICK products that are suitable for washdown environments.

SICK Offers New Light Curtain that Reduces Downtime

Configure, align and diagnose right on the device

SICK recently launched the C4000 Select Safety Light Curtain, a unique efficiency-booster. This light curtain allows customers to use DIP switches for configuration, rather than using a PC. The C4000 offers an integrated laser alignment tool; condensed, intuitive diagnostics; and the ability to cascade three C4000 Select pairs or a S300/S3000 Safety Laser Scanner.



SICK Launches New Hand-Held Bar Code Scanners

SICK, a leading innovator of safety systems and automatic identification products for factory and logistics automation, has launched an expanded line of hand-held bar code scanners. Using the most powerful imaging technology available, SICK now offers aggressively priced hand-held scanners that are able to decode all standard one-dimensional and two-dimensional codes used in the industry, as well as perform Optical Character Recognition (OCR).



New High-Performance Distance Measurement Sensor in a Compact Housing

DS30 is ideal for detecting flat black and shiny targets

SICK, one of the world's foremost manufacturers of sensors, recently announced the launch of the DS30 Distance Measurement Sensor. This new sensor enhances the company's position as the leader in distance measurement products. The DS30 combines simple push-button setup with incredible detection performance – all in an industry standard housing. The DS30 line is a proximity-style sensor with a single PNP or NPN output capable of detecting virtually any target within its 2-meter range.



Applications include:

- Pallet bay/bin empty/full detection
- Loop control for web materials such as paper, plastic, rubber and metals
- Detecting parcels, packages and objects with shiny surfaces to trigger SICK bar code scanners

Chromalox Introduces New Impedance Heating System

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Common applications include fluids that are thermally sensitive and/or highly viscous. An impedance system is also ideally suited for fluids that may solidify in the piping and need to be liquefied prior to pumping. Impedance can gradually and evenly warm a process (such as paraffin), from a coagulated state to a fully liquid state for pumping.

Impedance heating is also perfectly suited for pipe maintenance temperatures. Applications include processes that require continuous, steady heat input or freeze protection for a fire water pumping system. Another common application is for corrosive environments where direct immersion heating is not desired.

Advantages

Accurate Temperature Control to $\pm 1^\circ \text{F}$

Available SCR power control can accurately monitor and control desired temperature.

Chromalox Load banks and power test equipment

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Chromalox type EDU and EDP load bank energy dissipation units are designed to provide durable, precise energy control for applications requiring anywhere from 1 kW to 1 MW of power capacity. Applications include testing generators, UPS systems, battery banks, turbines, etc.

When you think of Chromalox, don't just think of process heating – think power test equipment and instrumentation as well!

Uniform Heating

Rather than having localized "hot spots" for transferring energy, impedance heating allows for even, smooth heating along the entire circumference and length.

Simple Installation

As compared to electric heating elements, additional piping, valves, wiring, etc. are not needed to accommodate impedance heating. Impedance utilizes the pipe itself and minimizes the amount of equipment needed.

Efficient, Compact Area for Heat Transfer

Impedance heating allows higher watt densities to be used due to increased velocities and lower pressure drops.

Indirect Heating Contact

There are no concerns of corrosion on a heater sheath as the process is only heated by the pipe.

Can Handle Warm Up or Temperature Maintenance Conditions

Impedance heating can be used for simply maintaining pipe temperatures or adding additional power to heat up liquid flow. Impedance can also be used to liquify coagulated fluids when re-starting a system.

No Routine Maintenance Needed

Impedance has no moving parts that require servicing or that can cause costly shutdowns of operations.

No Double Jacketing

Steam or oil traced lines have additional hazards of frozen lines, or leaky connections. Impedance totally eliminates these concerns.

Impedance Heating Systems

- Uniform, indirect heating
- Distances of up to several miles in length
- 1 kW to several MW of power
- Low-voltage operation in the process (less than 50V)
- Temperatures to 1800°F
- Watt densities up to 190 W/In²
- Hazardous area certifications available

DITTMAN



*The Right People –
The Right Products*



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