

Canadian

# PROCESS

# EQUIPMENT & CONTROL NEWS

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focus  
on

## Fluids Handling

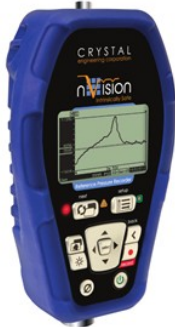


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Sales agreement no. 40069151

### PRESSURE RECORDER INCORPORATES NEW IMPROVEMENTS

Crystal Engineering continues to improve on the nVision reference pressure recorder. For example, recent improvements include increasing the available pressure modules from 10,000 psi to 15,000 psi and introducing the 24V DC external power supply. Now, Crystal Engineering has introduced remote recording capabilities. Typically, when a test involves mandatory safety distances or difficult to access locations, there are limited options, but the nVision now offers users a safer solution. The latest firmware (R080014), available in CrystalControl (1.7), allows the user to start nVision recordings directly from a PC without touching the nVision chassis. The new remote recording functionality has been successfully used in CrystalControl by daisy-chaining two PTC 20-meter (65 feet) active repeater/extension USB cables (PTC Model # USBR2-20MF). As a result, the user can remain a safe distance away from the test while configuring, controlling, graphing and viewing the recording. The nVision reference pressure recorder provides high accuracy (0.025% of reading) as well as durability and reliability. For more information contact [info@cameroninstruments.com](mailto:info@cameroninstruments.com)



**Cameron Instruments**

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### APPLICATIONS FOR STAINLESS STEEL LINE EXTENDED

HARTING has extended the application possibilities for its Han-INOX® stainless steel product series with new covers for hoods and bulkhead housings in size 10 B. In addition, a bulkhead housing with integral cover and coupling housing, also for size 10 B, has been introduced. Han-INOX is designed for rugged and highly sensitive applications where a high-grade stainless steel exterior is required. Han-INOX is IP-65 compliant, suitable for applications in industries like oil and gas, petrochemical production, water filtration and waste-water systems, as well as for food and beverage and pharmaceutical production. Han-INOX is available in Han® 10B and Han® 3A sizes and can be combined with most standard contact inserts or the flexible Han-Modular® connector series, which makes possible a multitude of applications from power supply to data transfer, including hybrid combinations of power, data and signal. The robustness of Han-INOX housings and covers provides resistance against chemical and other aggressive substances and ensures reliable operation in the toughest environments. For more information contact [rich.carlson@HARTING.com](mailto:rich.carlson@HARTING.com)



**HARTING**

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### PALLETIZER SHORTENS CYCLE TIMES, RAISES PRODUCTIVITY

Today's manufacturers need a workforce that meets health and safety requirements while producing high quality products at a cost that allows them to remain competitive. ABB Inc.'s IRB 460 palletizer is the solution. The IRB 460 is the world's fastest palletizer and is ideal for high speed bag or case handling applications. It is capable of shortening cycle times and raising productivity. With a reach of 2.4 meters and 110-kilogram payload capacity, this compact, four-axis robot can achieve up to 2,190 cycles per hour with a 60kg load. That's 15% faster than its nearest rival. The compact design of the IRB 460 allows pallets to be placed 20% closer to the robot as compared with competitors' robots with similar speeds and payloads. This factor alone can increase productivity by up to 3%. ABB also offers RoboCare, a three-year warranty package, that ensures worry free operation of the robots at a fixed cost. For more information contact [abbrobotics@ca.abb.com](mailto:abbrobotics@ca.abb.com)



**ABB**

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SEE US AT PTX CANADA - BOOTH: 1207

### SYSTEMS PROVIDE AUTOMATED THERMAL EVENT DETECTION

FLIR Systems has introduced the A310f and A310pt, two new remote monitoring systems for fully automated thermal event detection. The FLIR A310pt is a pan/tilt unit designed for automated fire and catastrophic event prevention that simultaneously provides full thermal perimeter security functionality. Typical applications include electrical substation monitoring, fire prevention for coal or wood chip piles, and flare stack monitoring. It's the first remote temperature measurement system that can plug and play into existing CCTV networks and IPTV security networks. A precision pan-tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality. The FLIR A310f is a fix-mounted system featuring an A310 thermal camera protected by an IP66 environmental housing. For more information contact [rob.milner@flir.com](mailto:rob.milner@flir.com)



**FLIR Systems**

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**PTX Powder & Bulk Show Canada** Supplement Inside

Canadian  
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The 1 day show that goes to your neighborhood produced by expert magazine  
Nepean, ON - October 23  
Boucherville, QC - October 25  
Lethbridge, AB - November 7  
more details on Page 3-8  
or go to  
**cpecn.com**

### SYSTEM SIMPLIFIES PROCESS OF BLENDING LIQUID POLYMERS

The dynaBLEND™ liquid polymer dilution/feed system from Fluid Dynamics eases the task of blending liquid polymers for wastewater processes because it has been designed to effectively activate all types of liquid polymers. The dynaBLEND's non-mechanical mixing chamber also delivers a high degree of reliability when compared to other technologies. The system also features an injection check valve designed with easy disassembly and inspection in mind, which eliminates many of the maintenance concerns that affect other systems. For more information on the dynaBLEND liquid polymer dilution/feed system contact Krystal.Jaekel@psgdoer.com



#### Fluid Dynamics

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### CABLES WITHSTAND HARSH ENVIRONMENTS

Optical Cable Corporation (OCC) has announced the availability of its 10 gigabit multimode, ruggedized tight buffered fiber optic cables designed to withstand harsh industrial environments found in manufacturing plants, steel mills, petrochemical refineries, and chemical plants. With exceptional bend, crush, impact, and chemical resistance across a broad thermal operating range, OCC's ruggedized tight buffered cables speed installation, reduce attenuation loss, and maximize network uptime at industrial facilities. OCC's optic cable derives much of its reliability and performance advantages from its basic design. As opposed to loose-tube designs, which only have one thin coating surrounding each optical fiber, ruggedized tight-buffered fibers have two. The ruggedness of the cable is a result of the pressure-extruded (Core-Locked™) or tightly bound outer jacket that firmly binds all the fibers together so that the cable moves as a single, solid, rope-like unit. OCC's ruggedized fiber optic cables withstand environmental insults such as caustic and volatile chemicals, excessive moisture and fungus, UV exposure, and more. For more information contact marketinginfo@occfiber.com



#### Optical Cable

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### LOADER ENSURES EASY CLEANING FOR SANITARY APPLICATIONS

The new K-Tron P-Series Venturi loader is designed specifically for conveying powders in sanitary food, pharmaceutical and chemical applications. It can be used for loading hoppers as well as loss-in-weight feeder refill applications and meets the rigid 3A Dairy sanitary requirements. The highly efficient and compact Venturi power unit utilizes compressed air to create its vacuum convey source. This eliminates the need and expense for a separate blower package, making it a more economical solution for applications requiring lower rate conveying over shorter distances. The unit also includes a large area automatic reverse jet filter for efficient powder conveying. The loader body is made of DIN 1.4404 (AISI 316L) stainless steel, with internal and external electropolished surface passivation. The modular construction and sanitary design, without pockets or dead spaces, allow for easy disassembly and cleaning as well as simple expansion with extension modules. For more information contact info@ktron.com



#### K-Tron

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### PORTABLE CALIBRATOR HIGHLY VERSATILE

The TCS140 from E Instruments is an all-in-one portable dry block, liquid bath, blackbody calibrator. The dry block insert is easily replaced with a liquid bath complete with an easy-to-use adjustable speed agitator. It is an ideal tool to calibrate glass thermometers and for short thermocouples and thermoresistors. Features of the TCS140 include temperature range of -30°C to 140°C; absolute stability-dry block of ±0.035°C, absolute stability-liquid bath of ±0.02°C, and absolute stability-blackbody of ±0.045°C; heating speed of -30°C to 140°C in 15 mins; and more. For more information contact dkelly@E-Inst.com



#### E Instruments

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### BEARING PROVIDES MISALIGNMENT, EXPANSION CAPABILITIES

Baldor Electric Company has introduced the new Dodge Type EXL tapered roller bearing that provides both misalignment and expansion capability, while maintaining industry standard Type E mounting dimensions. This new design incorporates a cartridge-style inner unit into a split ductile iron housing. The split-housing design allows the inner unit to swivel freely in the housing allowing up to ±4° of static misalignment. Standard Type E products offer virtually no misalignment and are not available in an expansion design. Mounting dimensions are equivalent to any standard Dodge or competitor's Type E dimensioned product. The totally sealed inner unit incorporates the Dodge XTS triple-lip seal for increased protection in harsh environments. The housing is made from ductile iron for added strength versus cast iron products. The Type EXL utilizes the new Dodge tapered roller bearings. The new bearing design offers a 13% to 14% increase in load ratings over the previous tapered bearing design. The new design is available in both two- and four-bolt pillow blocks and utilizes the same inner unit for both expansion and non-expansion housings. Bore sizes range from 1-3/16 inches to 5 inches. The Dodge Type EXL will increase reliability and decrease downtime by offering high sealing, misalignment capability and load ratings. For more information contact smtraylor@baldor.com



#### Baldor Electric

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### ROTARY VALVE DESIGNED FOR RUGGED APPLICATIONS

Designed specifically for rugged applications generating harsh or abrasive dusts, the CI Series of rotary valves from ACS Valves provides processing operations continuous performance, reduced maintenance, and optimal energy efficiency. To provide long-term, heavy-duty rotary airlock performance, CI Series valve housings are cast in North America to ensure superior strength in the composition and solidification of the housing's metallurgy. Bearing life and maintenance cycles are extended due to the outboard bearing design of the CI Series. This CI Series bearing design easily manages applications with pressure differentials up to 15 psig. The outboard design also protects the bearings in high temperature applications to 750°F, and removes bearings from the path of damaging and contaminating materials. For more information contact sales@acsvalves.com



#### ACS Valves

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## Pilot Plant Pumps

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METERING PUMPS  
Pilot Plants, Test Stands, &  
Modular Lab Systems



PDS-100  
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Providing Pilot Plant  
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516-922-6050 / 800-223-3388  
or visit us at [www.fluidmetering.com](http://www.fluidmetering.com)

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### PUMPS PROVIDE OPTIMUM PERFORMANCE

The new Moyno® 2000 Model WA and WB pumps provide unmatched performance in a compact, close-coupled configuration. Moyno 2000 WA and WB close-coupled pumps are specifically designed for lower pressure, lower flow applications that do not require the full features and benefits of the Moyno 2000 G1 pump. The Moyno 2000 WA and WB Models are ideal for municipal and industrial applications that require the transfer of highly viscous fluids and solids where a close coupled configuration is preferred, but the robustness of a gear joint is desired. The Moyno 2000 WA pump features: bearings integral to the adapter housing that support the radial thrust loads at the rotor/stator; standard size/keyed gear reducer shaft; sealed, gear-type universal joint drive train; and optimized rotor/stator pumping element geometry. The WB pump features: traditional close-coupled design with thrust and radial loads supported by the bearings in the gear reducer; no shaft bearings; gear reducer output shaft designed with cross drilled pin holes for extended service life; and more. For more information contact literature@tdh-marketing.com



#### Moyno

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