

Image processing for QC

Compact with low power consumption, LABCam reduces costs without sacrificing image quality. Its one mega-pixel resolution, rapid data acquisition, and wide measurement range make this new digital camera suited to quantitative imaging measurements, including quality control in manufacturing industries. Its 10-bit per pixel sensor provides rapid acquisition while the USB 2.0 interface speeds data transfer rates to 480 Mbits/s. LABCam comes complete with camera control and data processing software.

—Société ELDIM, www.eldim.fr

Circle 110 on Control Solutions Int'l RS Card

**Flowmeter talks and listens**

The FlexMASter ST98 Series flowmeter now has two-way communications on the Profibus-DP protocol option. The flowmeter's advanced thermal mass sensing element is fully temperature compensated and delivers precision measurements over a wide flow range. It features an accuracy of $\pm 1\%$ of reading plus $\pm 0.5\%$ of full scale. Highly consistent, the ST98 has a repeatability of $\pm 0.5\%$ of reading. Its flow sensing element is comprised of two all-welded 316 stainless steel thermowells that protect RTDs.

—Fluid Components Intl., www.fluidcomponents.com

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**Low-level accelerometer**

The Model 7290A Microtron® accelerometer measures low-level accelerations in aerospace and automotive applications. The accelerometer features hyperFLEX® coaxial cable assemblies that offer superior break strength and resistance to a wide variety of chemicals, solvents and liquids. The accelerometer operates from 9.5V to 18.0 V dc and provides a high-level, low impedance output. The +2 volt differential output is dc coupled at a dc bias of approximately 3.6 V. The device features an operating temperature range of -65°F to $+250^{\circ}\text{F}$ (-55°C to $+121^{\circ}\text{C}$).

—Endevco, www.endevco.com

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{sensor update}

**CSA-approved multigas monitor**

The M40 Multi-Gas Monitor has been approved by the Canadian Standards Association, and also bears the UL mark for Class I, Groups A, B, C, and D; Class I, Zone 1, AEx ia d IIC T4 hazardous locations, and Cenelec (ATEX) approval with marking code EEx ia d IIC T4; Equipment Group and Category II 2G. Its standard features include a large display, continuous loop datalogger, peak/hold functions, STEL and TWA readings, Quick Cal calibration, and rechargeable lithium-ion battery for up to 18 hours of continuous runtime.

—Industrial Scientific, www.indsci.com

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Benchtop digital thermometers

The MDSi8 and MDSSi8 Series thermometers are available in single and 10-channel versions, and feature totally programmable color displays, optional alarm relays or analog output. Universal Inputs include thermocouple, RTD, process voltage/current, strain on single channel models. Other features include high accuracy $\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F}$), 0.03% reading, optional embedded Internet, and portable, rugged metal benchtop enclosure with tilt handle.



—Omega Engineering,

http://www.omega.com/ppt/pptsc_lg.asp?ref=MDSi8_MDSSi8&Nav=tem104

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Capacitive sensors have teach mode

The microprocessor-based TRIPLESIELD™ capacitive sensors now feature a single push-button Teach Mode that allows the user to program the sensing range and output, eliminating the need for a potentiometer. The sensors also have a remote-teach wire, allowing them to be fully programmed from a remote location. Sensing range has been increased to 12mm for the M18, and 30mm for the M30 style.

—Carlo Gavazzi Automation Components, www.GavazziOnline.com

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**Moisture analyzer handles low-pressure applications**

The Model 3050-AM analyzers has been redesigned to allow operation at sample inlet pressures as low as 6 psig, making the it well suited for lower pressure applications, such as air separation and bulk liquid storage and distribution. The Model 3050-AM accurately measures from 0.1 p-p mV to 100 p-p mV and will provide measurements up to 1000 p-p mV. It features an intuitive easy-to-use operator interface with keypad and display that allows quick access to all operating variables.

—Ametek Process Instruments, www.ametekpi.com

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**Resolvers for motion/position control**

The Harowe™ brand of resolvers offers a wide range of frameless resolvers—from size 10 to size 55. It also includes housed resolvers ranging from standard-grade size 11 to heavy-duty industrial-grade size 25. HaroMax frameless brushless resolvers feature tooth-wound construction. As a result of a more consistent winding, electrical error is 50 percent less than that of a standard resolver. Resolvers are available to withstand temperatures to 225°C and with radiation hardening.

—Danaher Industrial Controls Group, www.dancon.com

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**Sensor for color print control/inspection**

This 640x480/752 x 582 print sensor can inspect complex and simple color print layouts at a rate up to 180 parts per minute. The print control sensor needs approximately 10 to 50 golden parts for teach-in. Additional fault processing can be carried out, and "allowable" faults can be suppressed in the course of optimization. Clear and easily understood parameters are provided for parameterization. Objects tested include bottle labels and caps, keyboards, laser markings on components, pad printing on PC boards, and more.

—Vision & Control GmbH, www.vision-control.com

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