# TECH BRIEFS

ENGINEERING SOLUTIONS FOR DESIGN & MANUFACTURING



# **Ethernet Datalogger**

Paralan Corp., San Diego, CA, offers the TCW220 Ethernet datalogger with two analog inputs, 10-bit resolution, and two discrete inputs. It supports a 1-Wire interface for up to eight sensors, including carbon dioxide, 0/20mA, AC/DC current, temperature, and humidity. All monitored parameters can be logged on previous set time intervals and/or on alarm conditions. Memory capacity is up to 36 days with records records.

tions. Memory capacity is up to 36 days with records recorded every minute up to 70,000 records. Relays can be activated either remotely or locally, providing status of monitored parameters.

For Free Info Visit http://info.hotims.com/69502-106

# Integrated Sensors



DunAn Sensing, San Jose, CA, announced the TP Series of integrated pressure and temperature sensors that uses DURAsense packaging and microelectromechanical systems (MEMS) pressure sensor integration with a thermistor to provide pressure and temperature outputs. The ceramic packaged "button" is comprised of a ceramic substrate on

which the MEMS piezoresistive pressure sensor and the thermistor are mounted. The button uses a media-compatible, rear-entry packaging strategy for media contact with the silicon sensor. The sensors are available in pressure ranges from 0-15 to 0-750 psi in both absolute and sealed gage. They feature an extended temperature range from -40 to +125 °C, and rugged hostile-media package.

For Free Info Visit http://info.hotims.com/69502-107

#### Sealer

Stronghold Coatings, Franklin, OH, introduced Blue Dichtol polymeric capillary sealer for castings and composites that impregnates micropores and hairline cracks without vacuum or pressure, forming a protective barrier to gases and liquids that is



not invisible when cured. It is compatible with ferrous and nonferrous materials and composites. It penetrates up to .004" into the coating to prevent corrosion of the metal substrate. Pressure-resistant to 8700 psi, and temperature resistant to 932 °F, the sealer is applied by dip, brush, or spray, and cures at ambient temperature.

For Free Info Visit http://info.hotims.com/69502-108

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#### Data Acquisition

The iNET-600 Series A/D module from OMEGA Engineering, Norwalk, CT, provides 16 SE/8 DI voltage input channels, each of which are independently programmable with Windows software, supporting direct connection

to common sensor types. The USB data acquisition system requires no additional components such as an external power supply. Each channel provides sample rate, voltage measurement range, sensor type, and single-ended or differential wiring.

For Free Info Visit http://info.hotims.com/69502-109

# Magnetic Connectors

GlobTek, Northvale, NJ, offers the MAG2C2A11851M5xxxA magnetic connector as a standard magnetic connector output cord option for power supplies, and the MAG2C2A11851M5USBA as a detachable connector with USB-A termination. The system features N52 neo-



dymium magnets and #20 gauge 2 conductor cable in a 1.5-meter length. Electrical contact is made via gold-plated pogo pins. A tearaway function prevents damage to the connector by accidental or unintended disconnection.

For Free Info Visit http://info.hotims.com/69502-110

# Frequency-to-Analog Converter



The FAC-R<sup>TM</sup> frequency-to-analog converter from AW-Lake Co., Oak Creek, WI, changes incoming sensor frequency to both current and voltage analog output. It interfaces with a variety of frequency-out sensors and instrumentation, including flowmeters, tachometers, pumps, motors, and linear/rotational encoders. A Bluetooth communication interface supports both basic scaling and advanced functions using a tablet or smartphone. It features an

input range from 0.25 Hz to 5 KHz with five user-selectable outputs.

For Free Info Visit http://info.hotims.com/69502-111

### **Equipment Bumpers**

Roboworld®, West Chester, OH, introduced Pendant Armor® shockabsorbing bumper frames that protect robot teach pendants from damage when accidentally dropped. Much like ruggedized cases for smartphones or tablets, the frames are manufactured from chemical-

resistant Santoprene<sup>TM</sup>, and guard the teach pendant from hazards such as drops and spills. The bumpers are designed and engineered to fit a variety of OEM architectures, and preserve operability and access to the pendant's keypad, flash drives, and switchgear.



For Free Info Visit http://info.hotims.com/69502-112

#### Datalogger



Graphtec America, Irvine, CA, announced the GL980 8-channel datalogger that offers isolated analog inputs that are individually configurable for 500 VDC, 250 Vrms, or temperature inputs. Voltage, temperature, humidity, logic, and pulse measurements can be taken simultaneously in high speed. Sampling rate

of IMS/sec across all eight channels, as

well as four digital inputs up to 100 kHz, can be recorded to a 4-GB onboard memory with USB and SD memory card support built in. Features include triggering, alarms, EU scaling, and 7" color display.

For Free Info Visit http://info.hotims.com/69502-113