

Mtech Product Update



Inside this Issue:

> Horner Product News

- Do I need Power Monitoring? Get Control of Your Energy Costs

- The new QX751-15" OCS

- Cscape™ 8.7 Available for Immediate Download on April 10th. (page 4)

> Turck Product News

- Simplify your RFID Solution with BL20 Modular I/O

- PT4300 and PT4400 Intrinsically Safe Pressure Sensors

- Multiple color Cordset over molding

> Banner Product News

- WORLD-BEAM QSSDELVC Clear Object Detector

- SC22-3E Safety Controller now with Ethernet

Come see the latest Power Monitoring Solutions from Horner APG

Tuesday May 12th
9:00am – 12:00pm
1:00 pm to 4:00 pm
Power/mation St. Paul

Wednesday May 13th
9:00am – 12:00pm
Barr Engineering
Hibbing MN

Thursday May 14th
9:00am – 12:00pm
Best Western
Doublewood Fargo ND



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Do I need Power Monitoring? Get Control of Your Energy Costs

Join us on May 12th at Power/mation in St. Paul, May 13th Barr Engineering Hibbing, and May 14th at the Best Western Doublewood in Fargo, as we will explain the importance of Power Monitoring and offer reasonable ways to collect monitoring data before making decisions on what to do to reduce your energy costs. You can pay \$50k-100k for power studies or begin understanding your systems through Power Monitoring yourself. You can then make the modifications to your operations yourself. Who knows your process better than you!

Knowledge is power. Don't be caught powerless!

We will show you how to get a Power Monitoring system in your facility for less than most pay for a day of the cost of power. Begin saving soon. Power will not get cheaper. In this informative seminar you will learn how SmartMQn energy solutions show you exactly where your costs are so you can proactively reduce your energy consumption costs.

The SmartMQn energy suite of products are an elegant combination of hardware and embedded software applications packaged in an easy to install solution. No programming is required. No networking is required. No IT resources are needed. In fact, you can hook up a standalone SmartMQn energy product to a machine, circuit or building and instantly be monitoring your energy consumption. SmartMQn products show you exactly where your costs are so you can proactively reduce your energy consumption costs. As your needs grow, SmartMQn energy products can grow with you and be networked and managed from one single point using SmartMQn Energy Manager. All SmartMQn energy products include onboard datalogging for capturing historical data. You are in complete control of selecting the precise measurement criteria you wish to log. SmartMQn energy will log your data for analysis and up-to-the-minute decision making. No PC is required, however you can easily import SmartMQn's historical data from the MicroSD memory card for use in other software applications through its industry standard .csv formatted files.



- How much energy does your building use?
- How much energy does your building use in off hours?
- How much energy does each department / section use?
- How much energy does each major piece of equipment use?
- How much does the energy cost to produce your products?
- How do you limit demand or on-peak charges?
- How do you turn off loads you are not using?



Call us Today to reserve your seat for this seminar that can save you thousands of dollars

The New QX751-15" OCS



Meet the New QX 751
15" Color Touch Sreen OCS.

It's BIG. It's Bold. It's Bright.

12.31" H x 15.07" W x 3.95" D • Cast Aluminum Chassis • XGA Resolution • 32, 000 Colors



[Click her for more details...](#)

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Simplify your RFID Solution with BL20 Modular I/O

TURCK has expanded its BL indent RFID product portfolio with the release of a Simple RFID (RFID-S) slice for its BL20 modular I/O system. Each RFID-S slice contains two channels of RFID. Additional RFID slices, as well as traditional discrete and analog I/O slices, may be added to the system, making it the only product on the market that allows this combination on the same node on the network.

This flexible design facilitates the integration of RFID into both new and existing systems. The RFID-S slice does not require special software for integration into a PLC system, further simplifying the entire process of adding RFID to a system. Nick Clute, product specialist with TURCK, adds, "If you can program a push button to turn on a pilot light, you can program TURCK's RFID system."

The RFID-S slice is compatible with TURCK's IP 20 rated BL20 non-programmable and programmable gateways for use on PROFIBUS @-DP, PROFINET,

DeviceNet™, Modbus TCP/IP and EtherNet/IP™ networks. All RFID channels operate in parallel, so there is no time delay during communication between the tag and the read/write head. The TURCK RFID-S slice is designed with digitized communication allowing up to 50 meters between the transceiver and the slice without the induction of noise.



Product Strengths

- Cost effective: Allows up to 4 slices (8 RFID channels) per node requiring only one gateway
- Economy: RFID-S can be used with the BL20 Economy gateway providing additional cost reduction to price sensitive applications
- Flexibility: Allows users to mix RFID, digital and analog I/O on the same gateway
- Easy to integrate: Does not require special software to configure

Product Specifications

- IP20 degree of protection
- 8 bytes of user data per read/write cycle
- Channels galvanically isolated from the field level via opto couplers
- Connection for 2 read/write heads per slice
- LEDs for display of status diagnostics

| Part Number | ID Number | List Price | Description |
|---------------|-----------|------------|------------------------------------|
| BL20-2RFID-S | M6827306 | \$475.00 | BL20 <i>BL indent</i> RFID-S slice |
| BL20-S4T-SBBS | M6827046 | \$12.60 | Spring connection base |
| BL20-S4S-SBBS | M6827047 | \$12.60 | Screw connection base |

PT4300 Pressure Sensor, Class 1 Div 2 Groups A, B, C & D

TURCK has introduced a new pressure transmitter, the PT4300. It is a media isolated stainless steel pressure sensor for use in hazardous areas. With its rugged construction without o-rings or welds, the PT4300 is the solution for pressure measurement for a variety of applications.

Features

- UL/cUL 1604 (CSA 213) Class I Div 2 Groups A, B, C, D
- High Strength Stainless Steel Construction
- Ranges from Vacuum to 10,000 PSI
- Compatible with Wide Range of Liquids and Gases
- EMI/RFI Protection
- No Oil, Welds or Internal O-rings



PT4400 Pressure Sensor, Class I, Div. 1, Groups C & D

TURCK has introduced a new pressure transmitter, the PT4400. It is a media isolated stainless steel pressure sensor with a wide variety of options. Approved for use in Class I, Div. 1 applications, the PT4400 is the solution for pressure measurement in intrinsically safe areas.

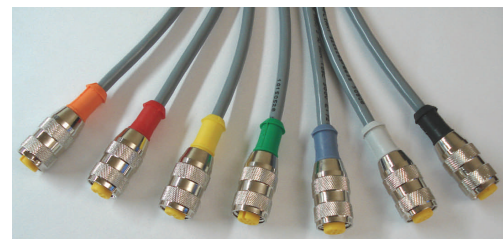
Features

- UL/cUL 913 (CSA 157) Class I, Div. 1, Groups C & D when installed with an approved barrier
- High strength stainless steel construction
- Ranges up to 10,000 PSI
- Compatible with wide range of liquids and gases
- EMI/RFI Protection
- No oil, welds or internal O-rings



Multiple color Cordset over molding

TURCK connectivity announces the ability to supply multiple color over molding. Please contact your Mtech representative to get a quote on this new option



Industrial Automation

WORLD-BEAM QS30ELVC Clear Object Detector

The QS30ELVC was developed to provide an easy-to-use, high-performance retro reflective sensor optimized for detection of clear, translucent, or opaque objects. Built on an advanced optical design, the sensor rejects false prox signals from mirror-like surfaces without relying on the polarizing filters used on previous Banner sensors. The optical design of the sensor ensures reliable detection of plastic PET bottles, glass bottles and containers, clear films and wrappers, and optically engineered surfaces such as mirrors, LCD glass with polarizing films, or semi-conductor wafers. This sensor has a faster response time than ultrasonic sensors.

Features:

- Reliable detection of clear, translucent, or opaque targets including mirror-like surfaces
- Automatic compensation algorithm compensates for dust or contamination on the sensor or reflector
- 3 selectable thresholds based on type of target being detected
- Easy configuration of sensor via push buttons or remote wire
- Includes a BRT-2X2LVC reflector and a BRT-40X19A reflector in the box
- Easy-to-read operating status indicators
- Rugged IP67 NEMA 6 housing for harsh environments; 1200 psi washdown rated per NEMA PW12
- Compact housing, mounting versatility — 30 mm threaded barrel or side-mount

Applications:

- Bottling lines –
 - air conveyor bottle jam detection - bottle counting - bottle down detection
- Counting bottles or vials on packaging machinery
- Detecting glass tubes in lighting manufacture
- Clear film web break detection
- Flat panel LCD screen detection
- Semiconductor wafer detection
- General detection of transparent or opaque objects on conveyors or material handling equipment.

Call your Mtech representative to see a demo and have a site survey with this new product.



| Model | Sensing Range and Use* | Cable** | Supply Voltage | Output | Price |
|-----------|---|------------------------------|----------------|-----------------------|-------|
| QS30ELVC | 100 mm to 2 m (3.9" to 78") Light SET for clear object detection | 2 m (6.5') 5-wire cable | 10 to 30V dc | Bipolar (NPN and PNP) | \$179 |
| QS30ELVCQ | | Integral 5-pin Euro-Style QD | | | \$179 |

SC22-3E Safety Controller now with Ethernet

After releasing their first Safety Controller a little over a year ago, Banner received input from our sales channel and customers requesting a similar controller with Ethernet network communications, including Modbus/TCP, EtherNet I/P, and PCCC.

This new Ethernet Safety Controller, just like the standard Safety Controller, has fully configurable inputs and outputs to manage multiple non-safety and safety-related components all on one device.

Features

- SC22-3E provides EtherNet/IP™ and Modbus/TCP network communications
- 32 configurable virtual status outputs with “Auto Configuration” option
- Network access to the Fault Log and System/Network parameters
- Easy-to-use Controller with fully configurable inputs and outputs
- ISO 13849-1 Category 2, 3, or 4 and OSHA/ANSI Control Reliability Input device hookup
- Manages several safety related functions
- 22 Inputs for safety and non-safety input devices
- 3 dual-channel Safety Outputs with selectable ON- and OFF-delay
- 10 Status outputs track input and output status, mute status, lockout, fault conditions and reset needed
- Simple configuration procedure using PC interface (PCI) or on-board controller interface (OBI) maps each input device to any of 3 Safety Outputs
- Configurations are password protected and confirmed before use, for assurance of safety integrity
- Configurations are transferable to multiple Safety Controllers and can be e-mailed as attachments
- 24V dc operation
- Complies with Safety Integrity Level (SIL) 3 per IEC 62061 and IEC 61508, and Category 4 Performance Level “e” per ISO 13849-1.
- Live display and fault log provide “real-time” status information and historically track faults
- Configuration files can be printed or exported

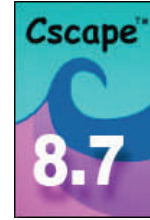


[Click her for more details on the SC22-3E...](#)

Cscape™ 8.7 Available for Immediate Download on April 10th.

Cscape™ Version 8.7 is ready for release and will be available for download on April 10th from the Horner website. This is a new release offering a variety of product improvements and support for new models.

- Support for the New QX751 15" Touch Screen Controller
- Adds a GPRS Service Provider Selection (for GPRS option on XLe, XLt, XL6 models)
- Improved Firmware Update Wizard for the NX controller family (FPGA auto-selection)
- More...



Cscape™ Downloads Easier and Faster ([To download Cscape™ 8.7 click here](#))

You can now create a Login user name and password and be able to download the latest Cscape™ software easier and faster. No need to register each time you download Cscape™. Click here to create your Cscape™ login user name and password and download Cscape™ 8.7 on April 10th. Please uninstall any previous Cscape Versions prior to installing Cscape Version 8.7.

Who Should Download Cscape 8.70

- Users downloading Cscape for the first time
- Users of the new HE-QX751
- Users of the new HE-QX351 (available Spring '09)
- Users of NX Controllers, due to an improved firmware update process
- Users who wish to utilize the product enhancements listed below


Enhancements Added Previously in Cscape 8.60c – (limited release version)

- 1) Added GPRS Service Provider Selection (for GPRS option on XLe, XLt, XL6 only)
- 2) Added Client/Server Radio Button on Modem Block (for GSM option on XLe, XLt, XL6 only)
- 3) Improved Firmware Update Wizard for NX Controller Family (FPGA auto-selection)

Enhancements Added in Cscape 8.70

- 1) Added Support for HE-QX751
- 2) Added Support for HE-QX351 (available Spring 2009)
- 3) Added DeviceNet Master Support for the following new models of XLt & XL6:
 - a. XLt controllers with DeviceNet Master option (e.g. HE-XT105-33)
 - b. XL6 controllers with DeviceNet Master option (e.g. HE-XL102-33)
- 4) Added CANopen support for XLe, XLt, XL6, NX and QX

You can also purchase our *X-Products Programming Kit*. Travel case includes Cscape on a USB Flash Drive, bundled with a USB Programming Cable, USB to Serial Adapter and X Products RJ-45 Serial Programming Cable.



To Purchase the *X-Products Programming Kit*...

Contact your local distributor or sales representative and ask to purchase the *X-Products Programming Kit HE-CPK* Price is \$99.

Mtech Represents
the following fine manufacturers







2009 Issue 4



OUR OBJECTIVE

Mtech is a manufacturer's representative dedicated to providing O.E.M.'s and users with solutions to their factory automation applications. This objective is accomplished by integrating over 70 years of experience with state of the art products to fill our customer requirements.

REGIONS SERVED

TURCK, BANNER, Horner & AMC
Minnesota, Western Wisconsin, North Dakota, & South Dakota

EXLAR
Minnesota, Western WI, North Dakota, South Dakota, Iowa, & Nebraska

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Premium, world class products and high caliber support result in successful projects for Factory and Process Automation

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