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Moore Industries-International, Inc.

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FOR IMMEDIATE RELEASE

Moore Industries Enhances TCS Temperature Concentrator System with Ethernet Integration for Increased Measurement Efficiency

NORTH HILLS, CALIF., – June 18, 2024 – Moore Industries has released a significant product update to the TCS Temperature Concentrator System. The TCS originally consisted of the TCM Temperature Concentrator Module and the HMC HART® -to-MODBUS RTU Converter, which work together to reduce the cost of transmitting multiple temperature sensor measurements in both general-purpose and hazardous area applications by concentrating and transmitting up to 32 signals over one MODBUS RTU based network.

The latest product update to the TCS enables a HES HART-to-Ethernet Gateway System to be used with the 16-channel TCM Temperature Concentrator Modules, allowing for Ethernet-based communication with the TCS. The HES is available in a single-channel or 4-channel model and can connect with up to two TCMs per channel, allowing up to eight TCMs to communicate with one HES. This allows 128 different temperature signals to flow over an Ethernet link from the field to a MODBUS/TCP-based host. Additionally, these temperature readings can be read by a HART-IP-based host or viewed with any off-the-shelf web browser since the HES includes an embedded web server. Unlike the HMC, the HES can communicate with up to sixteen HART devices per channel. Each 16-channel TCM is considered one HART device, so if two TCMs are connected on a particular HES channel, 14 additional HART devices can still be connected to the channel along with the TCMs.

The TCM Temperature Concentrator Module converts its signal inputs to standard HART protocol, which allows the HES to poll each TCM using a device-specific HART command. This device-specific command enables the TCM to send all 16 channel values in one HART message packet, thus increasing throughput and response time.

The TCS system significantly reduces the cost of transmitting multiple temperature sensor measurements in both general-purpose and hazardous areas. TCM module, equipped with 16 I/O channels, can be configured for various input types and converts them to the HART® digital protocol for long-distance transmission to a HES, HCS, or HART-based host. The TCS Temperature Concentrator System supports HART, MODBUS RTU, MODBUS/TCP, and HART-IP communications, allowing seamless integration with various monitoring and control systems. It is intrinsically safe approved for use in hazardous areas and enables cost-effective installation by minimizing the need for dedicated transmitters and wiring.

To see all TCS product details read and download the datasheet [here](#).

About Moore Industries-International, Inc.:

Based in North Hills, CA, Moore Industries is a world leader in designing and manufacturing rail, panel, and field instruments for industrial process control and monitoring, system integration, and factory automation. The company has direct sales offices in the United States and additional strategic worldwide locations in Australia, Belgium, the Netherlands, the People's Republic of China, and the United Kingdom. The company serves a variety of industries such as chemical and petrochemical; power generation and transmission; petroleum extraction, refining, and transport; pulp and paper; food and beverage; mining and metal refining; pharmaceuticals and biotechnology; industrial machinery and equipment; water and wastewater; and environmental and pollution monitoring. For more information on Moore Industries, visit www.miinet.com.