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USB-Configured 2-Wire Transmitters Feature Universal Sink/Source 4-20mA Output for Easy Install

Acromag releases new isolated transmitters that are PC/Windows-programmable via USB for conversion of temperature, voltage and current inputs to sink/source-compatible 4-20mA control signals. New USB Configured 2 wire transmitter model TT230Wixom, MI: Acromag's new TT230 series of isolated transmitters are designed to provide easier installation and setup. These signal conditioners are only 12.5mm wide for high-density mounting on DIN rails and provide a convenient USB connection to a PC for simple, precise configuration using Windows software. A number of models are available to isolate and convert thermocouple, RTD, voltage or current input signals to a 4-20mA output. These two-wire instruments are loop-powered and support both source or sink output wiring connections on the current loop with a 12-32V DC supply. A ruggedized design features -40 to 80°C operation, electrical noise immunity, and surge protection. CE and UL/cUL Class 1 Division 2 Zone 2 hazardous location approvals are pending. "The Acromag TT230 Series represents the latest innovations and state-of-the-art advancements in signal conditioning technology. Our two most exciting innovations include simple USB configuration and a universal sink/ source 4-20mA output to accommodate virtually any process measurement/control application. All units support both 4-20mA sinking (2-wire) and sourcing output (3-wire) device wiring to eliminate confusing model selection," explained Don Lupo, process group sales and marketing director. Each model accommodates a variety of signal types. Thermocouple units accept eight different sensor types (J, K, T, R, S, E, B, N), as well as $\pm 100\text{mV}$ inputs. RTD units accommodate 2-, 3-, and 4-wire 100 ohm Platinum sensors or 0-900 ohm linear resistance inputs. Voltage models convert bipolar signals from $\pm 10\text{mV}$ to $\pm 150\text{V DC}$ with multiple selectable ranges. The current units are widely adjustable to support $\pm 20\text{mA}$, 0-20mA, and 4-20mA DC input signals. All models deliver high accuracy, superior noise resistance and fast response times. They also demonstrate excellent linearity and stability with very low temperature drift. Software calibration eliminates zero/span pots, DIP switches, and pushbuttons for easy programming of ranges, over/under scale thresholds, and fail-safe settings. Many other features add greater flexibility. Programmable over/under range and fault/alarm levels enable identification of a "runaway" process or broken sensor. Selectable up/downscale failsafe modes ensure a safe, predictable shutdown with a NAMUR-compliant fault response. Acromag has designed and manufactured measurement and control products for more than 50 years. With a headquarters near Detroit, Michigan and a global network of sales representatives and distributors, Acromag products are sold worldwide. They offer a complete line of industrial I/O products including process instruments, signal conditioning equipment, data acquisition boards, distributed I/O modules, and network communication

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devices. Industries served include manufacturing, water services, power generation, mining, defense, and transportation.

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