



NEWS RELEASE

New 4-Wire Transmitters Offer USB-Configuration for Precise Input/Output Ranges, Filtering, and Calibration

Acromag releases versatile signal conditioning transmitters that are PC/Windows-programmable via USB to quickly select from many I/O ranges, pick filtering levels and finely adjust zero/full scale calibration

Wixom, MI: Acromag's new **TT330** series of 4-wire process transmitters are designed to deliver maximum efficiency while maintaining optimal performance and versatility. These isolated signal conditioners support high-density mounting on DIN rails and provide a convenient USB connection to a PC for simple, precise configuration using Windows software. Several models are available to convert a variety of thermocouple, voltage or current input signal types to your choice of bipolar or unipolar ranges for proportional voltage or current output signals. Wiring terminals are front-facing and removable for easy connections and maintenance. TT330 process signal converters are DC-powered (12-32V) and support a bussed rail power option for primary or redundant power. The rugged 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. Prices start at \$220 for single quantities.

"With the TT330 Series, Acromag combines the advantages of USB/software configuration with the great versatility afforded by new microcontrollers in an attractively priced 4-wire transmitter device. Now users can quickly set precise input/output relationships and other operating parameters for maximum performance," explained Don Lupo, Acromag's sales and marketing director for process products.

Each model accommodates a variety of signal types selected in the configuration software. The thermocouple model accepts eight different sensor types (J, K, T, R, S, E, B, N), as well as $\pm 100\text{mV}$ inputs. A DC current input model can condition $\pm 1\text{mA}$, $\pm 20\text{mA}$, 0-20mA, or 4-20-mA input ranges, as well as $\pm 0.5\text{V}$ DC and even 0-20A AC with an external toroidal sensor. There are also low-voltage ($\pm 1\text{V}$, $\pm 5\text{V}$, $\pm 10\text{V}$) and high-voltage ($\pm 15\text{V}$, $\pm 75\text{V}$, $\pm 150\text{V}$) DC input models. All units can convert the input to a $\pm 10\text{V}$, $\pm 5\text{V}$, 0-5V, 0-10V, $\pm 20\text{mA}$, 0-20mA, or 4-20mA output. The software also lets you precisely scale input ranges for full resolution. You can then test or calibrate input/output values in the software, too.

The USB-to-PC connection for software-driven configuration makes setting ranges and calibration easier, more accurate, and very reliable. Many competing units use DIP switches that can only offer coarse range settings, not fine adjustments. Using trim pots can allow fine tuning, but they require far more time to achieve the desirable results. With a USB port, you can digitally set the calibration gain and offset using precision D/A converters whereas DIP switches and pots can change values over time or due to temperature/shock/vibration.

These changes can lead to drift and require periodic re-calibration. And once configured, the device's settings can be archived in a file or uploaded quickly into additional units for rapid cloning in large systems. Later, a device's USB port enables diagnostic communication using software while a unit configured with DIP dipswitches and pots cannot. Plus, USB-configured devices use fewer mechanical parts which increases long-term reliability.

All TT330 models deliver high accuracy, stability, 1500V isolation, surge suppression, noise immunity, and fast response. They also withstand 50g shock and 5g vibration to deliver dependable operation in hostile environments. Built to AS9100 aerospace and ISO 9001 certified quality control standards and backed by a 7-year warranty, you can rely on Acromag's TT300 instruments for long-lasting superior performance, even under the toughest conditions.

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

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