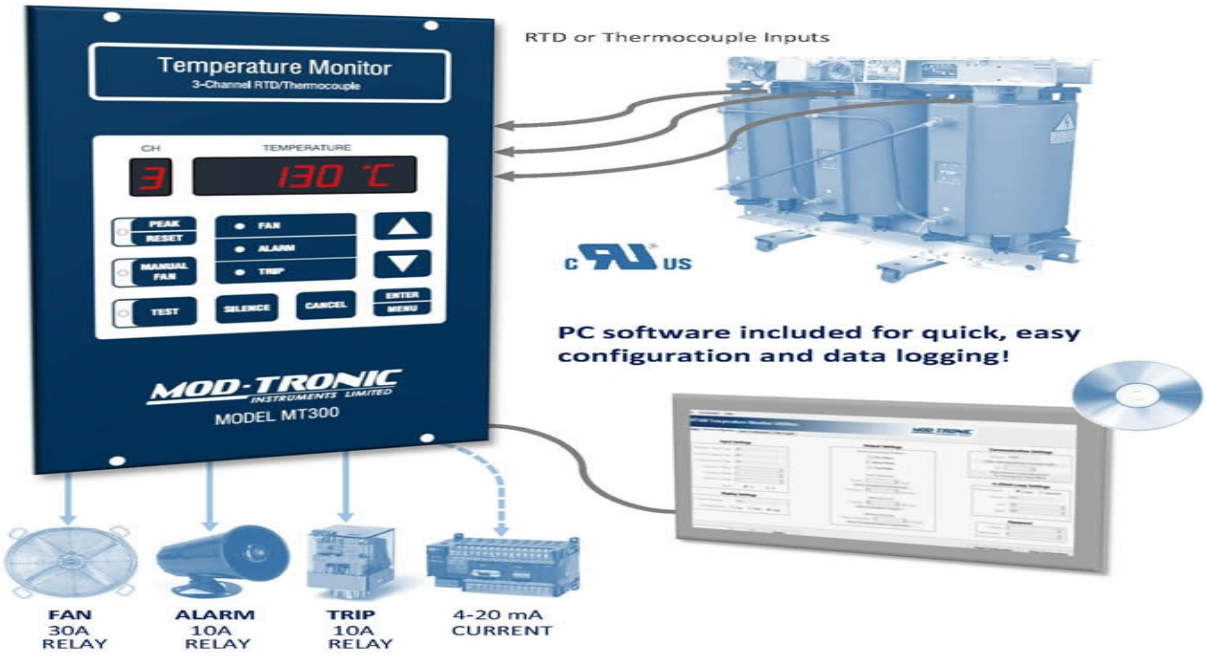

MOD-TRONIC's Transformer Monitor Enhances Temperature Control and Equipment Safety with the MT300

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BRAMPTON, ON - February 25, 2025 -
MOD-TRONIC Instruments Limited has announced availability of its MT300 3-Channel Temperature Monitor, an advanced monitoring and alarm system designed to enhance the protection of dry-type transformers, pumps, compressors, and motors. With its user-programmable features and industry-leading accuracy, the MT300 offers a high level of reliability in safeguarding valuable industrial equipment.

Steven Ruple, President of MOD-TRONIC Instruments Limited, emphasized the importance of this new addition to the company?s product line. "At MOD-TRONIC, we are committed to delivering high-quality instrumentation solutions that meet the evolving needs of industrial professionals. The MT300 not only offers precise temperature monitoring but also provides advanced relay control to optimize equipment performance and longevity."

The MT300 stands out in the industry due to its sophisticated microprocessor-based design, which ensures

consistent accuracy over a broad range of temperatures. The unit continuously performs self-checks to guarantee reliable operation, making it a valuable tool for industries that depend on the consistent performance of electrical equipment. Featuring universal inputs for 100 and 1000 ? platinum RTDs as well as Type E and Type K thermocouples, the monitor accommodates a wide range of applications.

A key feature of the MT300 is its three independent relay outputs, which can be programmed based on user-defined setpoints. This enables precise temperature control and efficient alarm activation in critical situations. MOD-TRONIC's transformer monitor is specifically designed to optimize the protection of dry-type transformers by ensuring accurate thermal management. One of the relays is dedicated to cooling fan control, a feature that extends the life of the fan and minimizes bearing lock-up through a user-configurable fan exercise function. By ensuring proper airflow and preventing unnecessary wear and tear, this feature enhances the overall efficiency of transformer and motor cooling systems.

Ease of use has been a major consideration in the development of the MT300. The monitor is equipped with a large, dimmable seven-digit LED display, which ensures visibility in a variety of lighting conditions and distances. Users can configure the unit through the front-panel interface or via MODBUS over USB and an isolated RS-485 connection. Additionally, included PC software allows for data logging and remote configuration, making the MT300 a flexible and adaptable solution for industrial settings.

Security and data integrity are paramount in industrial environments, and the MT300 addresses these concerns with a dual-password protection system. This feature allows different levels of access, enabling certain users to modify all configuration settings while limiting others to setpoint adjustments only. The unit also features non-volatile memory storage, which retains per-channel minimum and maximum temperatures even in the event of a power loss.

Designed to withstand the demands of industrial applications, the MT300 boasts a durable metal enclosure with a NEMA 4-rated front panel, ensuring resistance to harsh environmental conditions. The device?s output relays are designed for high performance, with the fan relay rated at 30A or 1.5HP at 55°C and the trip/alarm relays rated at 10A. The monitor also includes an electrically isolated 4-20mA current loop output, enabling seamless integration with PLCs and remote displays.

Certified for safety and compliance, the MT300 is UL/cUL recognized for both AC-powered (MT300A) and DC-powered (MT300B) models. The MT300A also carries CE certification, further underscoring its reliability and adherence to stringent industry standards. With a temperature measurement range of -50°C to 300°C (-58°F to 572°F) and an environmental operating range of -30°C to 72°C (-22°F to 162°F), the monitor is engineered to perform in demanding conditions.

The introduction of the MT300 reinforces MOD-TRONIC?s reputation for supplying high-performance

industrial monitoring solutions. By combining advanced functionality with user-friendly operation, the MT300 helps businesses improve equipment protection, reduce downtime, and enhance overall operational efficiency.

MOD-TRONIC Instruments Limited has long been recognized for its commitment to quality and customer satisfaction, offering an extensive selection of temperature sensors, industrial instruments, and control solutions. With a focus on innovation and reliability, the company continues to provide industry professionals with cutting-edge tools that ensure optimal equipment performance.

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MOD-TRONIC Instruments Limited

MOD-TRONIC is a distributor of fourteen high-quality manufacturers of industrial Sensors, Transducers, Heaters, Controls, and Instrumentation. We are very proud to say that the majority of the products we sell are made in the USA.

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