

Channel Scanners & Temperature Controllers



Synergy automation devices are designed to work together seamlessly. By integrating control and monitoring devices that complement one another into a single system, enables manufacturers to improve processing.

For example, a Channel Scanner Data Logger integrated with a Master/ Slave Temperature Controller would combine precise process control with comprehensive monitoring and data logging. This unified control and monitoring approach helps minimise downtime, simplifies troubleshooting, and supports quality assurance while keeping regulatory compliance.

The PSC-9084U-M1 8-Channel Scanner with USB Data Logger, when paired with the UTC-1X Master and UTC-2X Expandable Slave Module Temperature Controller, provide a reliable solution for monitoring, controlling, and recording vital process information.

While the UTC-1X and UTC-2X maintains accurate temperatures across multiple heating zones, the PSC-9084U-M1 simultaneously monitors up to eight process inputs and securely stores operational data for future analysis. Designed for industrial versatility, the PSC-9084U-M1 supports a wide range of temperature sensors and analogue inputs used to measure variables such as pressure, flow, and liquid level. It features a bright dual LED display for clear process visibility, four programmable relay outputs for alarms or equipment switching, USB data logging for convenient record keeping, and Modbus RS-485 communication for seamless integration with PLC, DCS, and SCADA systems. Its IP65-rated front panel provides protection against dust and water splashes, making it ideal for demanding industrial environments.

Together, these two devices deliver both precise process control and complete operational traceability. Should temperatures deviate from the required range, the UTC controllers automatically make corrective adjustments while the PSC-9084U-M1 records process changes and activates alarms when necessary. This integrated solution can be widely used in industrial sectors such as pharmaceutical and chemical processing, laboratories, heat treatments, manufacturing plants, as well as for generator monitoring and pump or compressor systems to improve process efficiency.

They also help reduce waste in several ways i.e the UTC-1X and UTC-2X controllers maintain stable temperatures across multiple heating zones, preventing overheating or underheating that can result in rejected products, damaged materials, or inconsistent batches. At the same time, the PSC-9084U-M1 continuously records process conditions and alerts operators of deviations before they become costly production issues. This enables corrective action to be taken early, reducing scrap, minimising re-works, and preventing unnecessary energy consumption caused by inefficient heating cycles.

The recorded process data also helps identify recurring trends, equipment performance issues, or operator errors, which allows maintenance teams to optimise processes and prevent future waste. In industries where product consistency and traceability are vital, these types of combinations ensures production remains within specified parameters, thereby reducing material losses while improving overall process efficiency and product quality.

Call us for more information on synergy process devices as well as general temperature controllers.

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