

From Electrical Current to Useful Signal Information



CTR-632 Current Transducer Signal Isolator Module MI-632 Flow Totalizer MFC-1058

In an industrial plant, electrical signals are the language used by machines to communicate. The CTR-632 Current Transducer, MI-632 Signal Isolator and MFC-1058 Flow Totalizer each play a different role in making that communication reliable, safe and useful.

The CTR-632 can be thought of as a translator. It takes a relatively high AC current signal, from 0–5 A, typically coming from a current transformer, and converts it into a standard signal such as 4–20 mA, 0–20 mA or 0–10 V. This makes the measurement easier for control systems such as PLCs and SCADA systems to understand. Its high accuracy, noise rejection and three-way optical isolation also help protect equipment from electrical interference and signal problems. It works particularly well in factory automation, power monitoring and applications where field signals need to be isolated or shared.

The MI-632 then acts like a protective checkpoint for analogue signals. It takes a standard current or voltage signal, isolates it electrically and passes it on without allowing unwanted electrical problems to travel with it. It is especially useful where signals need to be distributed to multiple instruments, matched between equipment or protected from noise.

Flow Totalizer MFC-1058 turns the signal into information people can easily understand. Receiving a 4–20 mA signal, it can display both the current flow rate and the accumulated total flow. It can also provide relay control and, where fitted, Modbus communication.

A practical example is a water-treatment plant. A flow transmitter measures water moving through a pipeline and sends a 4–20 mA signal. The MFC-1058 can display the flow and total volume, while the CTR-632 and MI-632 can condition and isolate electrical signals where required. Together, they help turn a raw measurement into reliable information that operators and control systems can actually use.

Call us for more information on DIN-rail-mounted signal-conditioning devices and panel mount automation instruments.

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