

Smart Circuit Meters



As industrial electrical systems become increasingly complex, the ability to monitor individual circuits efficiently is essential for optimizing energy consumption and identifying faults. However, installing separate conventional meters on every circuit typically increases equipment costs, plus additional wiring requirements, more panel space is needed and installation time.

The MC-60 and MC-70 Multi-Circuit Smart Meters offer a smarter and more efficient approach to improving electrical performance and reliable power distribution. Designed to monitor multiple electrical circuits through a single monitoring system, these compact meters can be interconnected to support up to 247 circuits, providing centralised access to valuable electrical and energy data. The MC-60 is particularly well suited to a wide-range of current measurements, applications and conditions where existing wiring cannot easily be dismantled. Same brand different model, the MC-70 adds advanced power analysis and energy consumption monitoring for facilities requiring greater visibility of electrical performance.

Both meters support Rogowski coils and open-end voltage-output CTs, allowing current measurements to be made without dismantling existing conductors. This non-invasive approach simplifies installation and minimises disruption, while reducing installation costs. Their compact integrated design also helps diminish wiring complexity and the potential for wiring errors.

With approximately 0.5-second measurement accuracy, the MC-60 and MC-70 can monitor current, voltage, active power (P), reactive power (Q), power factor, harmonics and energy across phases A, B and C. Flexible communication through RS-485 Modbus RTU enables integration with monitoring and energy management systems, while the MC-70 also features an RJ45 interface for high-speed, plug-and-play connectivity and protocol customization.

A real-life example would be a manufacturing plant with multiple production lines such as motors, pumps and compressors. Instead of installing a separate meter on every circuit, an MC-60 or MC-70 system could monitor numerous circuits from a centralized platform. Operators could then identify energy-intensive equipment, analyse power quality, compare consumption and make informed energy management decisions.

Contact us for more information on the MC-60 and MC-70 Multi-Circuit Smart Meters, including Rogowski coils.

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