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Mimic In-House Article
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Gateway IIoT Solutions:
Modules for Smarter Power and Motor Monitoring

Investing in Gateway IIoT solutions extends the monitoring of motor protection devices beyond control panels by transmitting operating and fault information from the devices through the Gateway IIoT module, to a company network or cloud. This enables remote visibility of equipment conditions and supports faster maintenance response. In short; the protection device protects the motor; the gateway communicates its information.

Gateway IIoT solutions connect electrical and industrial devices to digital systems, making it easier to monitor, record and manage equipment remotely. They support web applications, power and energy meters, temperature controllers, process scanners and flow totalisers.

Four instruments are examined in this article, highlighting how motor protection, power measurement and Gateway IIoT connectivity work together to improve monitoring, efficiency and maintenance, starting with the AVH 16-M1 and MFM-15-M1 multifunction meters, which measure key electrical values such as voltage, current, power and energy. These can be used in control panels, DG sets, LT/HT panels, OEM equipment and energy-management systems. For example, a factory could use these meters to track electricity consumption across production machines and identify areas of high energy use.

Both the AVH 16-T1 and MFM 15-T1 provide flexible three-phase measurement, support different electrical system configurations and accept CT/PT inputs for high-current and high-voltage applications. RS-485 Modbus communication enables data transfer to monitoring systems, while optional pulse outputs support energy tracking.

The other two devices, MPD-192 and MPD-192-M1, help protect motors used in applications such as electrical panels, submersible pumps, road-construction equipment, MCC panels, industrial chillers, HVAC systems and DG sets. Here, a water facility utilising these two devices could monitor a submersible pump and detect electrical problems before they cause costly downtime. The MPD-192-M1 is also able connect to a company network or the Internet through a gateway.

The Gateway modules provide Wi-Fi or SIM-based cloud connectivity, allowing Modbus devices to send data for remote monitoring and cloud data logging. The range includes GTW-T1-M and GTW-T1-PS Wi-Fi-based modules, as well as GTW-G1-M and GTW-G1-PS SIM-card-based modules, providing cloud connectivity for compatible industrial devices.

Call us for more IIOT Gateway information.

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