8-Channel Digital Input Module (Modbus)

The **8-Channel Digital Input Module (Modbus)** is an industrial-grade data acquisition device designed for reliable monitoring of digital signals in automation and control systems. It enables seamless integration of field-level digital inputs with PLCs, SCADA systems, and industrial PCs using the widely adopted Modbus RTU communication protocol.

Key Features

- **8-Channel Digital Input:** Supports up to eight independent digital input channels, allowing simultaneous monitoring of multiple field devices such as sensors, switches, and relays.
- **Input Voltage: 12–24V DC:** Compatible with standard industrial control voltages, ensuring easy integration with existing field equipment.
- **Sink / Source Compatible:** Flexible input configuration supports both sinking (NPN) and sourcing (PNP) devices, reducing wiring complexity.
- **Modbus RTU Communication:** Uses RS■485 based Modbus RTU protocol for robust, noise-resistant communication over long distances.
- **LED Status Indicators:** Individual LED indicators for each channel provide instant visual feedback on input status and system operation.
- **Wide Operating Temperature:** Designed to operate reliably in harsh environments with a temperature range of –20°C to 70°C.
- **Industrial■Grade Enclosure:** Rugged enclosure ensures durability, electrical isolation, and protection against industrial conditions.

Typical Applications

This module is ideal for use in factory automation, building management systems, process control, energy monitoring, and machine control applications where reliable digital input monitoring and standardized communication are required.