8-Channel Analog Input Module (Modbus)

The **8-Channel Analog Input Module (Modbus)** is a precision data acquisition device engineered for accurate monitoring of analog signals in industrial automation systems. It supports both voltage and current inputs, enabling reliable acquisition of sensor data such as temperature, pressure, flow, and level measurements via Modbus RTU communication.

Key Features

- **8-Channel Analog Inputs:** Supports up to eight independent analog input channels for simultaneous multi-sensor data acquisition.
- **0–10V / 4–20mA Inputs:** Compatible with the most common industrial voltage and current signal standards.
- **16-Bit Resolution:** High-resolution analog-to-digital conversion ensures fine measurement granularity and precise signal representation.
- **Modbus RTU Communication:** RS-485 based Modbus RTU protocol provides reliable, noise-immune communication with PLCs and SCADA systems.
- **High Accuracy Measurement:** Designed for stable and repeatable measurements, minimizing drift and ensuring long-term reliability.
- **Industrial Isolation:** Electrical isolation protects the module and connected systems from noise, ground loops, and voltage surges.

Typical Applications

This module is well suited for process automation, energy management systems, environmental monitoring, machine diagnostics, and industrial IoT applications where accurate and reliable analog signal acquisition is essential.