



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

### Modbus Data Acquisition with Data logging feature

Modbus RTU is one of the most common protocols used in Industrial and Factory Automation. A large number of PLC's, HMI's and SCADA software have the ability to communicate to other devices using Modbus protocol. These automation systems control and monitor industrial processes using data from sensors and other control devices.

Remote Data Acquisition modules provide the ability wire sensors closer to the equipment that they monitor to reduce wiring costs. By wiring close to the sensors that these DAQ modules monitor, makes it easy to troubleshoot sensors and wiring problems. The use of analog sensors to monitor speed, flow, and temperature are often part of the process.



Features
16-channel Current Input
Jumper Selectable Differential or Single-ended Wiring
16-bit Resolution
Adjustable Sampling Rate
Storage for up to 100,000 Records from 16-channel Current Input
Built-in Resistor to Simplify Current Measurement
110 Vdc Overvoltage Protection
4 kV ESD and EFT Protection
2 kV Surge Protection
Dual Watchdog
3000 Vdc Intra-module Isolation
Wide Operating Temperature Range: -25 to +75°C






Our new M-7017mc16 is a remote data acquisition module which has 16 Analog input channels. The module communicates via Modbus RTU protocol as a slave device. PLC's, HMI's and Scada Systems can easily be linked to these modules via RS-485 to use the AI values in control and monitoring application.



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### I/O Specifications

Analog Input		
Channels		16
Wiring		Differential or Single-ended Wiring (Jumper Selectable)
Types		±20 mA, 0 ~ +20 mA, +4 ~ +20 mA
Resolution		16-bit
Sampling Rate	Normal Mode	10 Hz total
	Fast Mode	200 Hz total
Accuracy	Normal Mode	+/-0.1%
	Fast Mode	+/-0.5%
Zero Drift		+/-20 uV/°C
Span Drift		+/-25 ppm/°C
Common Voltage Protection		25 Vdc
Individual Channel Configuration		Yes
Overvoltage Protection		110 Vdc
Overcurrent Protection		Yes, 50 mA at 110 Vdc
Virtual Channel to Channel Isolation		-
Open Wire Detection for 4 ~ 20 mA		Yes
Real Time Clock		Yes
Data Logger		Yes, up to 100,000 records from 16 current input channels

The M-7017MC-16 also has a data logging feature which provides a means for capturing lost data or sensor values . The data log feature can store up to 100,000 records from the 16 Analog input channels. The data is stored at periodic intervals set during configuration and the values also store a time stamp. The data in the data log can be accessed via Modbus or DCON protocol. There is a setting for either overwriting data when the buffer is full or turning the feature off after the buffer is full.

We offer free technical support and will be happy to help you chose the appropriate models to suit your application.