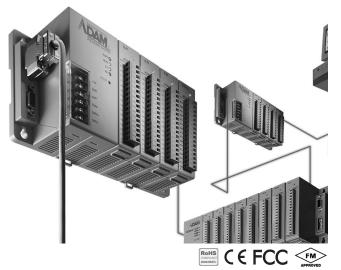
ADAM-5000/485 **ADAM-5000E**

4-slot Distributed DA&C System for **RS-485** 8-slot Distributed DA&C System for **RS-485**



Features

- RS-485 communication for easy installation and networking
- 4 or 8 slots for up to 128 points data monitoring card control in one module
- Extensive software support, includes windows DLL drivers, OCX drivers, OPC • server and popular HMI/SCADA software drivers
- Seamlessly integrated with easy-to-use ADAMView data acquisition software
- Supports ADAM ASCII protocol or Modbus[®]/RTU protocol
- Supports Modbus/RTU protocol with user-defined Modbus address

Introduction

The ADAM-5000/485 and ADAM-5000E systems conform to the EIA RS-485 communication standard. This is the industry's most widely used, balanced, bidirectional transmission line standard. RS-485 was specifically developed for industrial applications to transmit and receive data at high rates over long distances.

Specifications

Control System

•	CPU
•	I/O Slots

16-bit 80188 microprocessor ADAM-5000/485: 4 ADAM-5000E: 8 Power, CPU, communications

1.6 sec. (System)

- LED Indicators
- Watchdog Timer

Communications

Command Format Communication Distance

Data Format

ASCII command/response protocol, Modbus/RTU RS-485: 1.2 km (4000 feet) Asynchronous. 1 start bit, 8 data bits, 1 stop bit, no parity

Programming link: RS-232 (3-wire: TX, RX, GND)

Communication error checking with checksum

1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, and 115.2

Communication: RS-485 (2-wire)

128 (in RS-485 daisy-chain network)

Network Protocols

- Reliability Check
- Max. Nodes
- Speeds (kbps)

Power

•	Power Consumption	3 W @ 24 V _{DC} (ADAM-5000/485)
		(not including I/O modules)
		4.0 W @ 24 V _{DC} (ADAM-5000E)
		(not including I/O modules)
•	Power Input	Unregulated 10 \sim 30 V _{DC}

Software

- Driver Support Windows DLL, OPC Server, Wonderware InTouch, Intellution, iFIX, Citect, Advantech Studio, ADAMView
- C and .NET Class Library

Protection

- Communication Line 2,500 V_{DC} (ADAM-5000/485) 3,000 V_{DC} (ADAM-5000E)
- Isolation
- I/O Module Isolation
- Transient Protection
- Power Reversal Protection

General

CE, FM
1 x DB9-M/DB9-F/screw terminal for RS-485 (communication) 1 x DB9-F for RS-232 (configuration) 1 x Screw-terminal for power input
4-slot: 231 x 110 x 75 mm 8-slot: 355 x 110 x 75 mm
ABS+PC DIN-rail, wall, rack (with mounting kit)

3,000 V_{DC}

Yes

RS-485 communication lines, power input

Environment

- Humidity 5~95%, non-condensing
- Operating Temperature -10 ~ 70°C (14 ~ 158°F)
- Storing Temperature -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- ADAM-5000/485 ADAM-5000E
- 4-slot Distributed DA & C System for RS-485
 - 8-slot Distributed DA & C System for RS-485



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