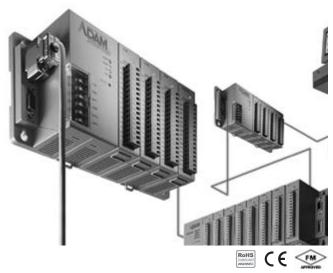
ADAM-5000/485 ADAM-5000E

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 16-bit 80188 microprocessor I/O Slots ADAM-5000/485: 4 ADAM-5000E: 8

 LED Indicators Power, CPU, communications

 Watchdog Timer 1.6 sec. (System)

Communications

Distance

 Command Format ASCII command/response protocol, Modbus/RTU - Communication RS-485: 1.2 km (4000 feet)

Data Format Asynchronous. 1 start bit, 8 data bits, 1 stop bit, no

Network Protocols

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

Communication: RS-485 (2-wire) Reliability Check Communication error checking with checksum

Max. Nodes 128 (in RS-485 daisy-chain network)

1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, and 115.2 Speeds (kbps)

Power

3 W @ 24 Vdc (ADAM-5000/485) Power Consumption

(not including I/O modules) 4.0 W @ 24 Vdc (ADAM-5000E) (not including I/O modules)

Unregulated 10 ~ 30 V_{DC} Power Input

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) Isolation 3,000 V_{DC} (ADAM-5000E)

 I/O Module Isolation $3,000 \, V_{DC}$

Transient Protection RS-485 communication lines, power input

Power Reversal Protection

General

Certifications CE, FM

Connectors 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

 Dimensions (WxHxD) 4-slot: 231 x 110 x 75 mm

8-slot: 355 x 110 x 75 mm

Enclosure ABS+PC

Mounting DIN-rail, wall, rack (with mounting kit)

Environment

 Humidity 5 ~ 95%, non-condensing • Operating Temperature $-10 \sim 70^{\circ} \text{ C} (14 \sim 158^{\circ} \text{ F})$ Storing Temperature -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

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