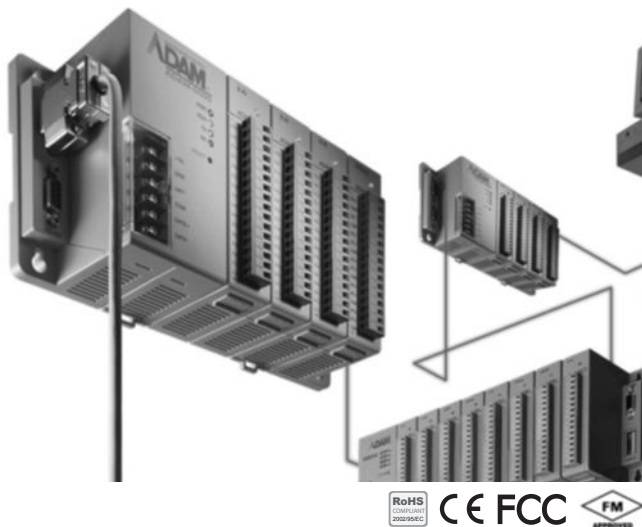


# ADAM-5000/485 ADAM-5000E

## 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

- Command Format ASCII command/response protocol, Modbus/RTU
- Communication Distance RS-485: 1.2 km (4000 feet)
- Data Format Asynchronous. 1 start bit, 8 data bits, 1 stop bit, no parity
- 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)
- Speeds (kbps) 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, and 115.2

#### Power

- Power Consumption 3 W @ 24 V<sub>DC</sub> (ADAM-5000/485)  
(not including I/O modules)  
4.0 W @ 24 V<sub>DC</sub> (ADAM-5000E)  
(not including I/O modules)
- Power Input Unregulated 10 ~ 30 V<sub>DC</sub>

#### Software

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

#### Protection

- Communication Line Isolation 2,500 V<sub>DC</sub> (ADAM-5000/485)  
3,000 V<sub>DC</sub> (ADAM-5000E)
- I/O Module Isolation 3,000 V<sub>DC</sub>
- Transient Protection RS-485 communication lines, power input
- Power Reversal Protection Yes

#### General

- Certification 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 ~ 70°C (14 ~ 158°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