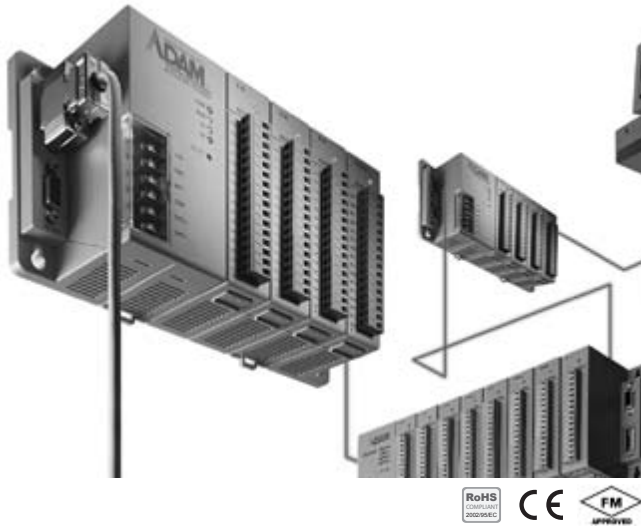


# ADAM-5000/485 ADAM-5000E

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 Vdc (ADAM-5000/485)  
(not including I/O modules)  
4.0 W @ 24 Vdc (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

- **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 ~ 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