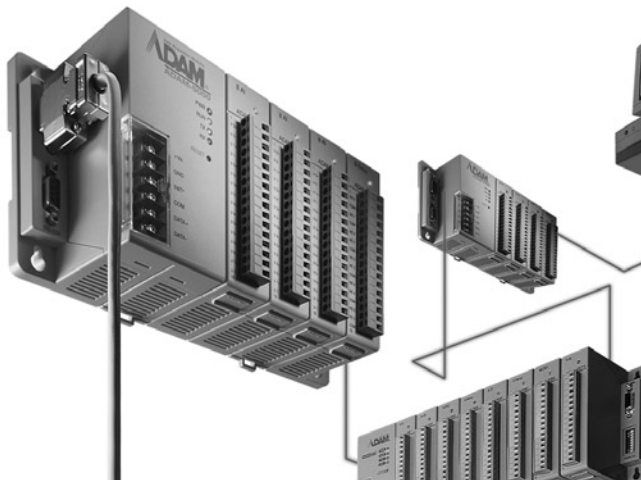


ADAM-5000/485 ADAM-5000E

4-slot Distributed DA&C
System Based on RS-485

8-slot Distributed DA&C
System Based on 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 driver.
- Seamlessly integrated with easy-to-use ADAMView data acquisition Software.

Introduction

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

Processor

- **CPU** 16-bit microprocessor
- **I/O module capacity** 4 or 8
- **Watchdog Timer** Yes
- **Power Consumption** 1.0 W (ADAM-5000/485)
4.0 W (ADAM-5000E)

Isolation

- **Communication Isolation** 2500 V_{DC} (ADAM-5000/485)
3000 V_{DC} (ADAM-5000E)
- **Communication Power Isolation** 3000 V_{DC}
- **I/O Module Isolation** 3000 V_{DC}

Diagnosis

- **Status Display** Power, CPU, communication
- **Self-test** Yes, while on
- **Software Diagnosis** Yes

Communication

- **Network** RS-232 or RS-485 (2-wire) to host
- **Speeds (bps)** 1200, 2400, 4800, 9600, 19.2 K, 38.4 K, 57.6 K, and 115.2 Kbps
- **Max. Communication Distance** 4000 feet (1.2 km)
- **Command Format** ASCII command/response protocol
- **Reliability Check** Communication error checking with checksum
- **Asynchronous Data Format** 1 start bit, 8 data bits, 1 stop bit, no parity
- **Maximum Nodes** Up to 256 multi-drop systems per host serial port
- **Protection** Transient suppression on RS-485 communication lines

Power Requirements

- **Unregulated +10 to +30 V_{DC}**
- **Protected against Power Reversal**
- **Power Protection** Transient suppression on power input

Mechanical

- **Case** KJW with captive mounting hardware
- **Plug-in Screw Terminal Block** Accepts 0.5 mm² to 2.5 mm², 1 - #12 or 2 - #14 to #22 AWG

Environment

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

Ordering Information

- **ADAM-5000/485** Distributed DA&C System Based on RS-485 (4 slot)
- **ADAM-5000E** Distributed DA&C System Based on RS-485 (8 slot)
- **PCLS-OPC/ADM** OPC Server for ADAM-4000/5000 Series (RS-485)
- **PCLS-OCX** ActiveX Control for Data Acquisition and Control
- **PCLS-ADAMView-W32** ADAMView Data Acquisition Software