

Control Techniques

UD71

Serial Communications Module

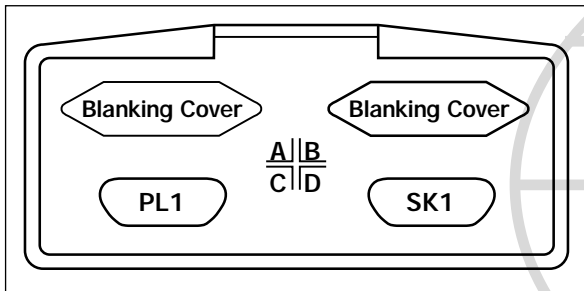


- Simple cost effective communications interface for Unidrive
- Flexibility to read and write values to and from drive parameters
- Typical external controllers could be a PC, PLC, UD70 or MD29
- Can act as a slave on a network and transmit data when interrogated by a master controller
- RS485 port supports multi-drop communication networks, with up to 81 nodes via network repeaters
- Data collisions avoided by assigning a unique serial address to each node
- RS232 port suitable for connecting directly to a 9 pin PC serial port

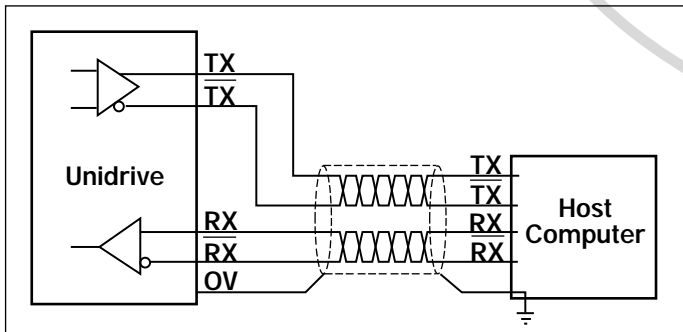


CONTROL TECHNIQUES

Module Connections



End view of Large Option Module



EIA RS485 4 wire connections

Hardware connections

The following table details the hardware connections for the EIA RS485 communications port.

Pin	EIA RS485 4 Wire PL1	EIA RS485 2 Wire PL1	EIA RS232 SK1	Host 9way
1	OV	OV	CD*	CD*
2	Tx	Tx/Rx**	TXD	RXD
3	Rx	Tx/Rx**	RXD	TXD
4	NC	NC	DTR*	DTR*
5	NC	NC	OV	OV
6	Tx	Tx/Rx**	DTR*	DTR*
7	Rx	Tx/Rx**	RTS*	RTS*
8	NC	NC	CTS*	CTS*
9	NC	NC	NC	RI*

(NC - no connection).

* Depending on the host software being used it may not be necessary to connect the terminals marked.

** Pins 2 and 3, and pins 6 and 7 must be connected together in two wire mode.

Features

- Supports data rates from 4800 bits/sec to 19200 bits/sec.
- RS232 port and RS485 port.
- RS485 port supports 3 modes of communications:
 - ANSI x 3.28-2.5-A4 protocol in slave mode.
 - Output Mode - the drive continuously scales and transmits the value of a user-defined source parameter to the port.
 - Input Mode - the drive receives the continuously transmitted data, multiplies by a scaling factor and writes to a user-defined destination parameter.
- RS232 allows simple one-to-one connection to a 9-way PC serial port. Ideal for commissioning.
- ANSI protocol fully compatible with Control Techniques CDE and Mentor II ranges of drives.
- Up to 1200m cable length.
- Up to 15 drives on one link without repeaters.
- UniSoft, VtcSoft and SystemWise fully supported.

Specification

Network

- RS485 and RS232 ports both optically-isolated
- Data rates from 4800 bits/sec to 19200 bits/sec
- Up to 1200m network length at 19200 bits/sec
- Up to 15 nodes without network repeaters
- Supports ANSIx3.28-2.5-4 protocol in slave mode

Environment

- Ambient Temperature: -5°C to +40°C
- Storage Temperature: -40°C to +50°C
- Weight: 124g
- Maximum Altitude: 4000m
- Humidity: +5% to +95% at 40°C, non-condensing

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