

Disclaimer: This document has been downloaded from the Internet and might not be complete—document quality and formatting depend on the user's computer. This Internet manual is intended as a temporary guide—obtain an original document from Startco or from an authorized Startco distributor.

920618

STARTCO MPU-16A RS-485 COMMUNICATIONS INTERFACE

Frequently, customers request motor data input to a central computer or distributed-control system (DCS). The MPU-16A interfaces to these systems through a RS-485, 2-wire, multidrop network. Sixty-two MPU-16A's can be connected with a maximum loop length of 1.2 km. The host computer or DCS is the master with the MPU-16A's being the slaves. The host can be an IBM compatible computer, programmable logic controller, or distributed-control system.

MPU-16A Motor Protection Unit:

The RS-485 communications module plugs into an existing slot in the MPU-16A. This module has the following features:

- on-board 68HC11 processor,
- user-selectable 75-9600 baud rate,
- isolated RS-485 output, and
- Allen-Bradley, DF1, half-duplex, data-highway c/w block (BCC) or cyclic redundancy (CRC) error checking, or
- Modbus RTU protocol.

A RS-485/RS-232-C converter is available to interface with a RS-232-C device.

Software:

The MPU-16A RS-485 communications interface supports software packages that communicate using Allen-Bradley, half-duplex, data-highway protocol or Modbus RTU protocol.

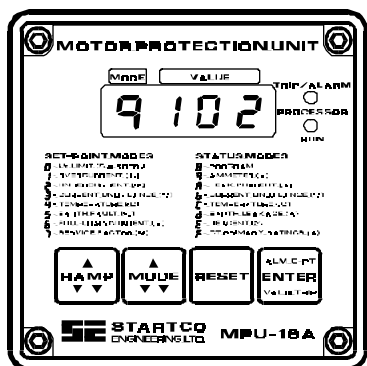
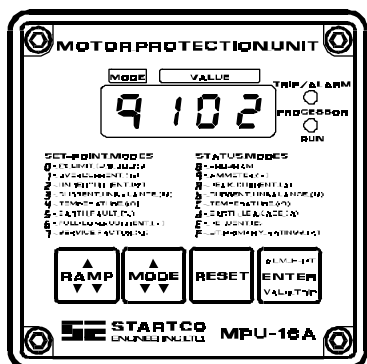
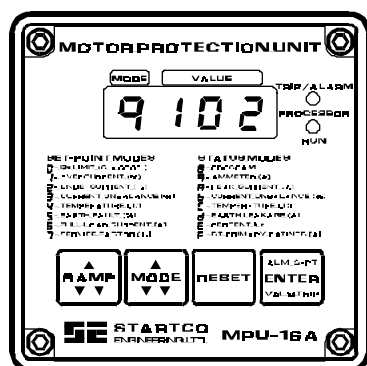
The RS-485 communications interface allows the user to:

- | | |
|--------------------------------------|-------------------------------------|
| – program CT-primary ratings, | – access meter readings, |
| – program motor full-load current, | – access trips and alarms, |
| – program motor service factor, | – access pre-trip values, |
| – program motor locked-rotor time, | – reset trips and alarms, and |
| – program trip-and-alarm set points, | – initiate emergency thermal reset. |

“MPU-VIEW” is an IBM to MPU-16A software package designed and supported by Startco Engineering Ltd. This is an inexpensive alternate to the more complex packages such as “Genesis”.

The “Genesis” general-purpose process-control package allows users without programming expertise to integrate data-acquisition and control systems using personal computers. This package allows real-time trending, alarm-and-trip management, fast real-time multitasking operation, simultaneous display of real-time and historical data, and advanced graphics animation.

ALLEN-BRADLEY



1-32 MPU-16A's

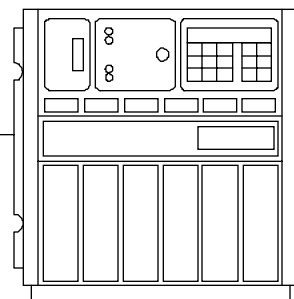
4000'
MAX

SE-485

50'
MAX

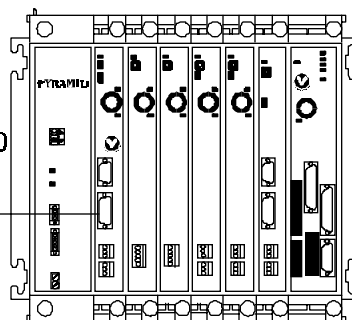
PLC-3

1771-DB
Pro Soft Inc.
DF-1 Master
Software



PLC-5/250

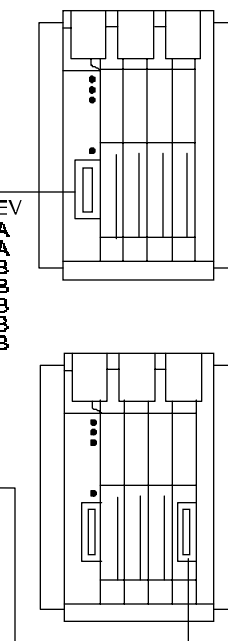
1786-RM
or
5130-RM
or
5130-KA



	SERIES	REV
PLC-5/11	A	A
PLC-5/20	A	A
PLC-5/30	A	B
PLC-5/40	B	B
PLC-5/40L	B	B
PLC-5/60	B	B
PLC-5/60L	B	B

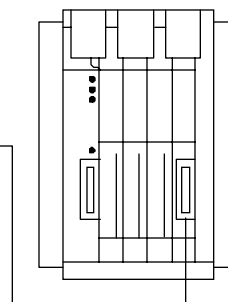
PLC-5

1771-DB
Pro Soft Inc.
DF-1 Master
Software



PLC-2

1771-KGM



MODICON

