STARTCO
ENGINEERING LTD.

406 Jessop Avenue Saskatoon, Saskatchewan Canada S7N 2S5 Telephone (306) 373-5505 Telefax (306) 374-2245

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:

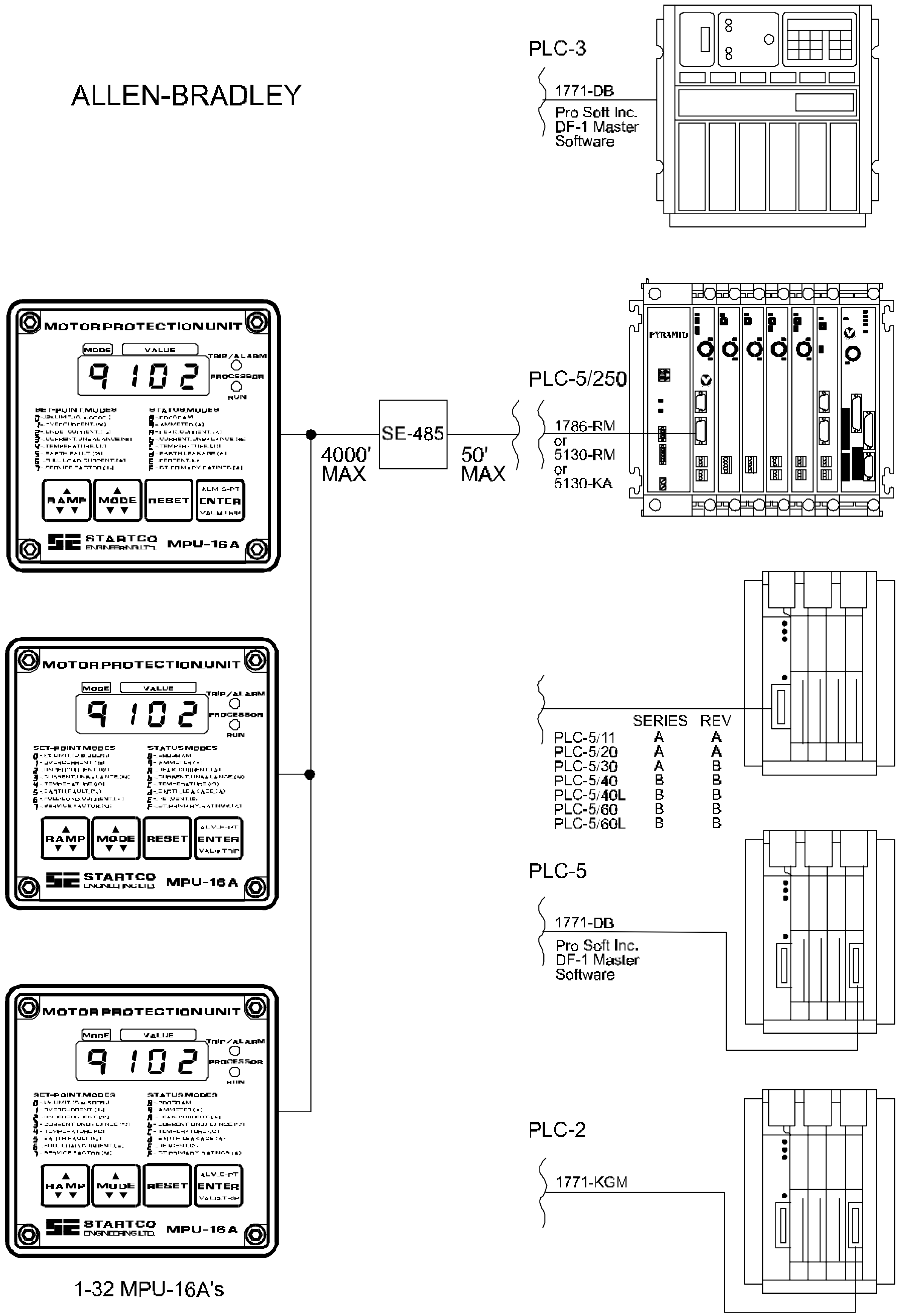
The MPU-16A RS-485 communications interface supports software packages that communicate using Allen-Bradley, half-duplex, data-highway protocol or Modbus RTU protocol.

The RS-485 communications interface allows the user to:

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



MODICON