APPLICATION NOTE AN354-01

OPTION 354 - RS232 INPUT FOR AE SERIES DISPLAYS

CONNECT UP TO 50 DISPLAYS TO A STANDARD RS232 PORT AT DISTANCES OVER 2000 FEET.

The RS232 Serial Input Option allows AE Series Displays to be connected to variety of standard computers, PLC's and control equipment at distances over 2000 feet without the need of special interface cards or line drivers.

RS232 communication is typically limited to a 50 feet distance from the controller's serial output port to the remote device. However, AE Series Displays with the RS232 Option are able to communicate at distances over 2000 feet. This is made possible because of the unique, high impedance input amplifier used in the AE Series Displays, and by communicating at a low, 2400 baud rate. Also, since the AE Displays are "listen only" devices, multiple displays can be connected to a single port.

For most applications this eliminates the need for special RS485 or RS422 ports. AE Series Displays can be connected directly to the RS232 port of your PC, PLC or application controller with a simple two conductor cable. DTR, DSR and CTS are jumpered together for listen only.

Suitable cable is: Beldon 8442 or equivalent.

If your controller already has an available RS485 or RS422 port, Option 354X, a modified version of Option 354, allows the AE Series Displays to be connected directly to either one.

For systems requiring more than 50 remote displays, and displays at distances over 2000 feet from the controller, ATS can provide the specific line drivers.

See the SERIAL INPUT Option 354 Brochure for more details.