



14507549 RS-232 to RS-485 Adapter Module

INSTALLATION INSTRUCTIONS

GENERAL

The 14507549 RS-232 to RS-485 Adapter Module ("Adapter") allows a notebook or desktop PC to communicate with controllers on a C-Bus in an Excel Building Supervisor (XBS) system (Ver. 1.2.2 or later). The Adapter is external to the PC and interfaces to the PC COM port via a RS-232 signal cable. A special WYE power cable routes power to the Adapter from the PC keyboard connection. The Adapter is able to drive a full-length C-Bus via a standard XW570 C-Bus cable. The Adapter provides complete opto-isolation to eliminate ground-loop problems. It also provides built-in resistors that are externally selectable for proper C-Bus biasing and termination. Built-in LEDs indicate C-Bus activity. The Adapter can be used in European applications that require CE certification.



CAUTION

Connection of a 14507549 RS-232 to RS-485 Adapter Module onto a UL Listed System could void the UL Listing of that System.

Installation of the Adapter requires the following items:

- 14507549 RS-232 to RS-485 Adapter Module
- Notebook or desktop PC with a COM port equipped with a 16550 UART.
NOTE: If uncertain of the UART in your PC, run the MSD Microsoft Diagnostic Program and note the type of UART listed in the COM Port definitions.
- 9-pin, D-subminiature plug-socket RS-232 signal cable as follows:
 - 14507551-001 Short cable for notebook PC
 - 14507551-002 Long cable for desktop PC
- WYE power cable as follows:
 - 14507552-001 Short cable for notebook PC
 - 14507552-002 Long cable for desktop PC
- XW570 C-Bus Cable

INSTALLATION

Set Switches

Refer to job drawings and Excel Building Supervisor Checkout & Test 74-3422 for guidelines on C-Bus biasing and termination.

Set Adapter biasing (BIAS) and termination (TERM) resistor switches to correspond to the C-Bus configuration.

Locate Adapter

Locate the Adapter so you can view its LEDs and the cables can easily connect to the PC.

NOTE: Two lengths of cables are available. Use "short" cables for connection to a notebook PC. Use "long" cables for connection to a desktop PC.

WIRING

NOTE: Figure 1 shows Adapter connection to a desktop PC. Connection to a notebook PC is similar.



CAUTION

You MUST minimize disruption to a live C-Bus. Before starting C-Bus connections to the Adapter, make certain that the appropriate software is installed on the PC and that the PC COM Port/IRQ assignments are properly set per Excel Building Supervisor Checkout & Test 74-3422. Do NOT connect a PC that is running XBS software to an operating C-Bus.

- ① Attach XW570 Cable to C-Bus wires per Excel Building Supervisor Checkout & Test 74-3422.
- ② Attach XW570 C-Bus cable connector to 6-pin mini-DIN connector on Adapter (Fig. 1).



CAUTION

Before connecting the 14507551 RS-232 signal cable and 14507552 WYE power cable to the PC, close down any running programs and turn off PC power. Before restoring PC power, verify all cable connections. Do NOT disconnect PC cables with XBS running.

- ③ Connect 14507551 RS-232 signal cable between COM port on back of PC and RS-232 input on Adapter (Fig. 1).

NOTE: Job drawings specify which COM port to use. Usually, COM1 port is preferred.

- ④ Connect 3-pin power connector on 14507552 WYE power cable to Adapter power input (Fig. 1).

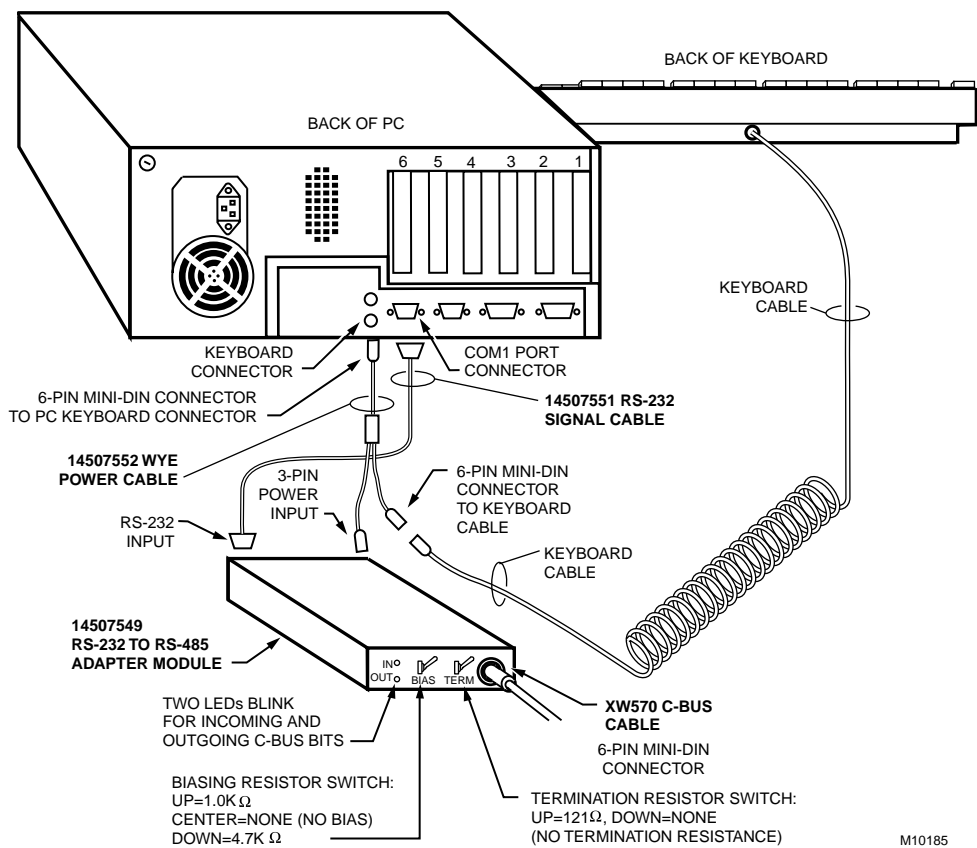


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If necessary, unplug keyboard cable from back of PC. Connect 6-pin mini-DIN connector on WYE power cable to keyboard connector on back of PC (Fig. 1).
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Connect other 6-pin mini-DIN connector on WYE power cable to connector on cable from keyboard.
- 7

Verify connections and turn on PC power.



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Fig. 1. Adapter Connections.

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