

RS-485 Converter Installation Instructions

EM3000 Access Control System

Follow these instructions to connect the RS-485 Converter from the PC host to the EMC panels.

- The EMC unit communicates to the PC using the RS-485 converter.
- For a multi-EMC system, connect the RS-485 converter to the first EMC in the system.
- **CAUTION: To avoid damaging the unit, power down the EMC before installing the converter.**

STEP 1: DISCHARGE STATIC

Before handling the RS-485 converter, discharge any static electricity (touch the grounded case on back of PC).

STEP 2: RUN CABLE TO DEDICATED PC

Run a shielded cable (Belden 1419A or equivalent) consisting of two (2) twisted pairs (24 AWG) from the EMC to the dedicated PC.

STEP 3: WIRE AND CONNECT THE RS-485 CONVERTER

- 1 Wire the RS-485 converter to the EMC as shown in drawing (back of sheet).
- 2 Plug the converter into any available COM port of the host PC.
Note the COM port number. EMWin will select COM 1 as the default. However, if using another COM port, you must manually designate it in EMWin (see *EMWin User's Guide* for more details).
- 3 Plug the converter's power transformer into the 120VAC power outlet.

