

# TX3-USB-AD Kit Installation Instructions

The TX3-USB-AD Kit converts RS-485 signals to USB. The MD-993 Module mounts above the **TX3 Telephone or Card Access controller boards** in the locations shown below, using the four # 6-32 screws and spacers provided. The MD-993 Module ribbon cable connects to the **P4** modem connector on the **Telephone Access System controller board** and to the **P3** modem connector on the **Card Access System controller board**.

## To install the MD-993 Module

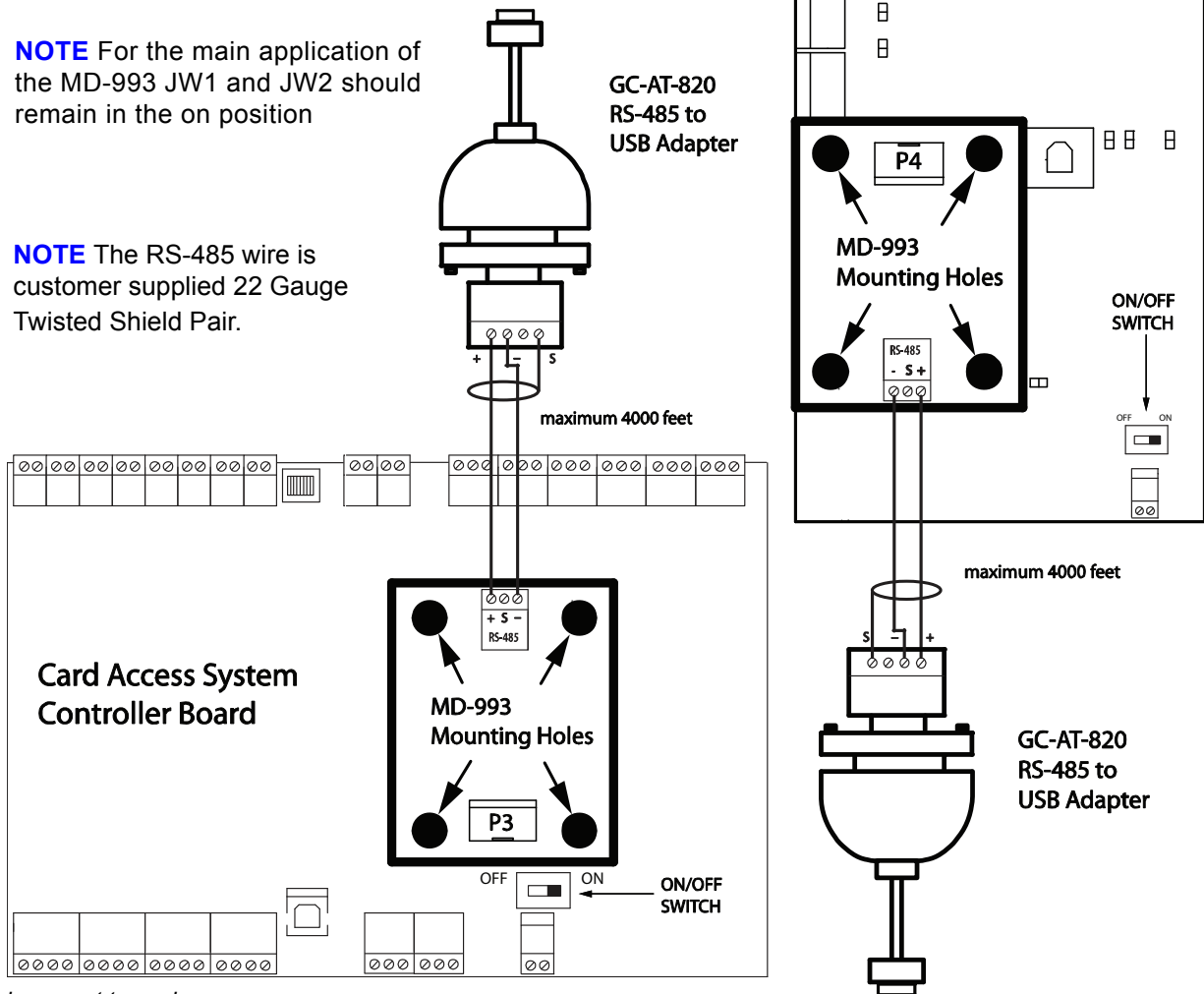
1. Connect the ribbon cable to the **P3** or **P4** modem connector.
2. Place module over the connector position with the four spacers.
3. Align and fasten into place with the four screws.
4. Observe the correct polarity and connect the wires from the RS-485 connector on the MD-993 module to the RS-485 to USB adapter (GC-AT-820) as shown.

## MD-993 Jumper Settings

JW1	JW2	Mode
Off	Off	No termination
On	Off	AC termination 120R + 1nF
Off	On	No termination
On	On	DC termination 120R (Factory Default)

**NOTE** For the main application of the MD-993 JW1 and JW2 should remain in the on position

**NOTE** The RS-485 wire is customer supplied 22 Gauge Twisted Shield Pair.



shown not to scale