MicroTech II™
ServiceTools™ Applied Terminal Systems Service Cable

For AAF®HermanNelson® Unit Ventilator Controllers

Description

When used in conjunction with the ServiceTools software program, the MicroTech II™ Applied Terminal Systems Service Cable provides an interface between a Personal Computer (PC) and either a standalone MicroTech II Unit Ventilator Unit Controller board or to a MicroTech II Unit Ventilator Unit Controller with a MicroTech II Building Automation System (BAS) communication module. It consists of a box with internal digital electronics and three cables connected to it. This box receives its power and connects to the computer via a serial cable (approximately 1-foot long) with a 9-pin female serial-port connector (see Figure 1). A durable canvas bag with McQuay logo and draw string is supplied to store and to protect the finish of your ServiceTools™ Applied Terminal Systems Service Cable when not in use.

Two other cables, each approximately 8-feet long, come from the side of the box opposite the serial cable. One cable (labeled Stand Alone) terminates with a 12-pin female plug that inserts onto the JP1 pins on the MicroTech II circuit board. It is used to make a connection when no communication module is installed.

Note: This plug has a white polarity marker on one side which shows the correct orientation for making this connection (see Figure 2). Misalignment of the pins or mis-orientation of the plug will cause the cable not to function properly.

The second cable terminates with a three-prong female plug. This is for use when connecting to a BAS network plug on a MicroTech II communication module (for BACnet and N2 Open). This plug is shaped to prevent accidental mis-orientation. However, in the case of the MicroTech II BACnet communication module, it must fit into a 4-pin male plug and horizontal misalignment is possible. Please refer to Figure 3 for proper plug alignment instructions.

Figure 1. ServiceTools™ Applied Terminal Systems Service Cable

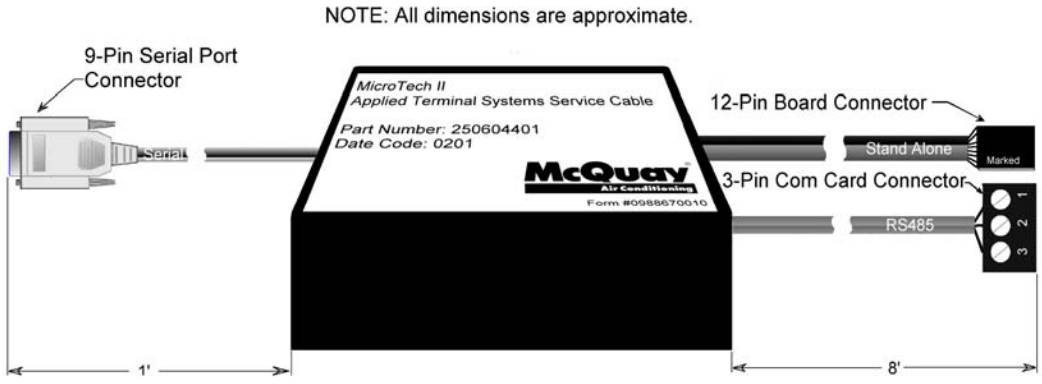

Figure 2. Proper orientation of the 12-pin connector when making a connection to JP1 on the MicroTech II™ Unit Controller board

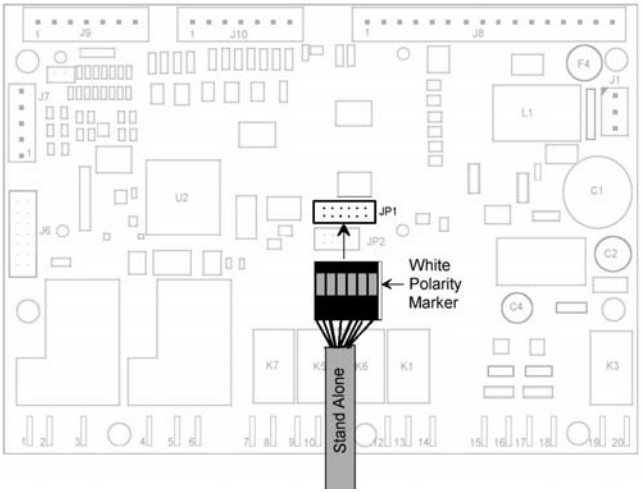

Figure 3. Proper alignment when plugging a 3-pin Applied Terminal Systems Service Cable network-connector plug into a 4-pin BACnet communication module.

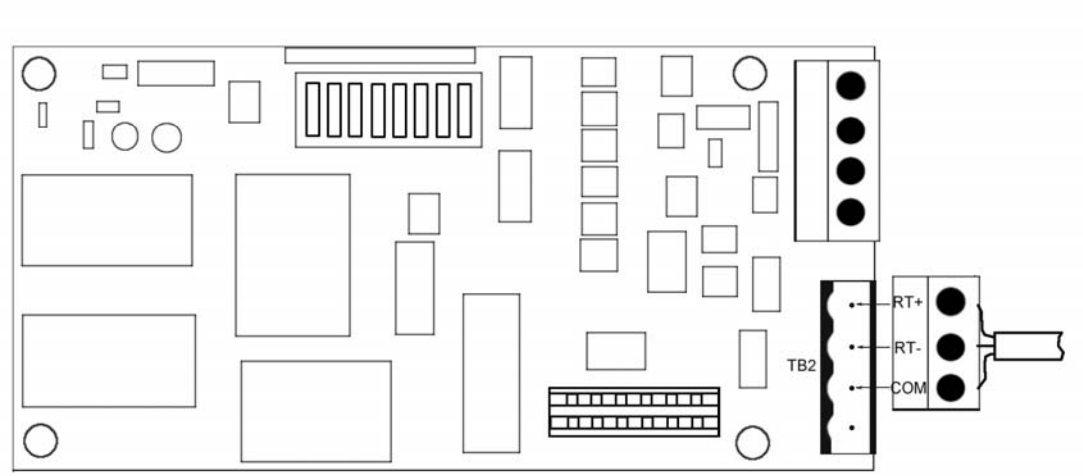

Table 1: Stand alone, 12-pin termination information	
1. N2 TXDN: TTL data from host*	12. Zone Bus* (not used on N2 module)
2. N2 RXDN: TTL data from host*	11. N2 TX_RXN: TTL enable transmit from host*
3. +5VDC	10. +5VDC
4. SDA: IIC Data Bus	9. Digital Ground
5. SCL: IIC Data Bus	8. Digital Ground
6. IPF* (not used on N2 module)	7. Chassis Ground

* Not used on Configuration module

Notice