

Modem Programming Instructions

for Multi-Tech Multimodem II MT5600 Series

This document provides instructions on programming the Multi-Tech Multimodem II MT5600 series modem for use with the GSC3000, VRC2500, and ARC-16 remote monitoring and control systems. Two modems are required for a full-time connection: one modem will reside at the control point (originate) and the other at the remote location (answer).

CONFIGURING THE MODEM

The MT5600 series modem is programmed directly from the front panel of the modem. To enter the configuration menu, press the down button. The first tree of the menu is labeled “Basic Options.”

Step 1:

Configure your modem to match the settings listed below. To change a setting, select the desired option using the arrow buttons and press Enter to select and save the setting. *Refer to the attached diagram for a menu tree explosion showing the location of each option.*

1. Set *Line Type* to **2** or **4-Wire Leased**. One modem must be programmed as “Originate” and the other as “Answer.” It is recommended that you label both modems so you know which one is originate and which one is answer.
2. Set *Error Correction* to “**EC Off**”
3. Set *Command Mode* to “**Command Mode Disabled**”
4. Set *Sync/Async* to:
 - A. For GSC3000 or VRC2500, set to “**Async Normal**”
 - B. For ARC-16, set to “**Sync Normal**”
5. Set *Serial Baud Rate* to:
 - A. For GSC3000 or VRC2500, set to “**19200**”
 - B. For ARC-16, set to “**1200**”
6. Set *Modem Connection Speed* to “**56000**”
7. Set *DTR* to “**Ignore DTR**”
8. Set *Carrier Detect* to “**CD Normal**”
9. Set *CTS* to “**CTS On**”

Step 2:

Verify the modems will communicate with each other by connecting them together and powering them on at the same time. The modems will go through a quick self-test and attempt to establish a connection. When they are connected, “online” will appear on the display of each modem.

For a two-wire connection, a regular RJ-11 cable can be used to connect the modems. For a four-wire connection, the modems should be connected using a four-wire cable broken out as follows:

Modem 1: Send 1 (Yellow)	⇒	Modem 2: Receive 1 (Green)
Modem 1: Send 2 (Black)	⇒	Modem 2: Receive 2 (Red)
Modem 1: Receive 1 (Red)	⇒	Modem 2: Send 1 (Black)
Modem 1: Receive 2 (Green)	⇒	Modem 2: Send 2 (Yellow)

The four-wire cable plugs into the LEASED jack on the back of the modem.

CONNECTING THE MODEM

Once the modems have been configured, connect them to your GSC3000, VRC2500, or ARC-16 system following the instructions below.

Connecting to a GSC3000 or VRC2500:

A pair of DB9 to DB25 serial cables are supplied with the modem. Use one serial cable to connect the “originate” modem to a computer running Lynx (control point), and use the other cable to connect the “answer” modem to COM1 on the GSC3000 I/O unit or the FULL-TIME port on the VRC2500. With the modem powered and connected, cycle the power of your remote control system to detect the modem.

Connecting to an ARC-16:

A pair of custom BNC to DB25 cables is provided with the modem. The BNC ends are labeled “IN” and “OUT” matching the label on the back of the ARC-16. Use one cable to connect the “originate” modem to the ARC-16 at your control point, and the other to connect the “answer” modem to the remote ARC-16.

CABLE PINOUTS

When connecting the modem to the computer and GSC or VRC hardware, use a standard DB9 to DB25 serial cable. Pinouts for this cable are as follows:

DB9F		DB25M
1	⇒	8
2	⇒	3
3	⇒	2
4	⇒	20
5	⇒	7
6	⇒	6
7	⇒	4
8	⇒	5
9	⇒	22

Multi-Tech MT5600 Series Menu Tree

