technical bulletin

Hand-Held Terminal For MultiFlex Upgrade Kit (P/N 814-3118) Instructions

Overview

The *P/N 814-3118* Multiflex Upgrade Hand Held (HHT) Terminal can operate like a standard *814-3110* HHT, but it also has support to upgrade an *810-3064* MultiFlex 88 to an *810-3063* MultiFlex 88AO and *810-3066* MultiFlex 168 to an *810-3065* MultiFlex 168AO.

Note: It is recommended that MultiFlex I/O boards with versions lower than VER: 1.11F01 (before June 2003) be returned to the RG department for upgrade. For example, VER: 1.00F01 and VER: 1.10F01 are lower than VER: 1.11F0, and have a possible risk of the board becoming inoperable during HHT firmware upgrade.

		LEGEND
1, 2	1	The power switch determines if the HHT is self-empowered mode (BATT), ext power (EXT), or if powered from a target device (HOST).
	2	External Power Connector (9-12 VDC)
14	3	F2 Main Menu
	4	Up Arrow - moves to previous screen, editable field, or top of screen.
	5	Right Arrow- selects last editable field starting from bottom of screen; selects last editable field from bottom to top.
13 3	6	Enter - save into memory
12 Cancel Enter 5	7	Numeric keypad
10 123 6	8	Scrolls list selections and scrolls through ASCII characters if in a text field
456 7	9	RS-485 Connector
	10	ancel - clears/erases text in editable field; cancels overrides
	11	Down Arrow- moves to next screen, editable field, end of screen or advances
K ₉ ⁸	12	Left Arrow - selects first editable field from top of screen, and next editable field from top to bottom
	13	F1 - Home Screen
	14	LCD - four lines of 16 characters

HHT Device Front Keypad

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Specifications

Connector	Female RJ-11 plug
Display	Graphic LCD (128 x 64 pixels)
Power Requirements	None (9V battery optional)
Dimensions	3.9" Wide x 8.3" Tall x 1.6" Deep (approx.)
Operating Environment	-20°C to 50°C
Storage Environment	-40°C to 65°C
Approvals	UL/CSA, CE, FCC

To Upgrade an 810-3064 Multiflex 88:

- 1. Plug the 814-3118 into the RJ-11 jack on the 810-306x.
- 2. After few seconds the following screen should appear:



3. Press the Down Arrow to access the MultiFlex or to upgrade the board.



4. Press the Down Arrow again to access the MultiFlex board, or press the Right Arrow then select **2**.

5. Press the Down Arrow twice to display the following screen:



 Press the Down Arrow to upgrade the device. The count (CNT) is the number of Board upgrades still available.
Slot #1



Press the Down Arrow to display the following screens: **Slot #2**

MultiFlex 88AO VER: 1.80F01 SLOT: 2 CNT: 10 UPGRADE: NO

Slot #3

MultiFlex 168 VER: 1.80F01 SLOT: 3 CNT: 0 UPGRADE: NO

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Slot #4



Slot #5

HHT	ADVANC	ED2
VER:	1.11F01	
SLO	[: 5 CNT:	0
UPGI	RADE: N	0

Note: Slot #5 is only used to show the version of the HHT.

- 7. To Upgrade a MultiFlex board, select either slot #2 or #4 depending on the model of board that is being upgraded. To upgrade a MultiFlex 88 to an 88AO select slot #2. To upgrade a MultiFlex 168 to a 168AO, select slot #4.
- 8. Press the Right Arrow then press the (-) minus key to select **YES**. Press the Down Arrow twice. The BLOCK count increases as the firmware is being upgraded.



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9. After the firmware upgrade, the board resets and the following screen appears. Note: The Status LED should be flashing once per second to indicate proper operation.



10. Press the Up Arrow or **F2** to get to the main menu.

SELECT: 1 1= SLAVE TERMINAL 2= LOAD FIRMWARE 3=RS-485 TESTER

11. Press the Down Arrow to display the following screen:

MULTIFLEX 88AO 810-3064 VER: 1.80F01 (PRESS↓)

Or

MULTIFLEX 168AO 810-3065 VER: 1.80F01-01 (PRESS↓)

Press and hold **F1** for 6 seconds to return to the main menu.

12. Unplug the Hand Held Terminal (HHT) cable from the RJ-11 connector on the board and connect it to the next board to be upgraded.

HHT Power Source

The HHT does not require a separate power source. The unit is powered from the RJ-11 connector on the peripheral equipment. The 9V battery and 9-12V DC adapter connection are not used on this model. The HHT includes a standard male RJ-11 to male RJ-11 cable.

If HHT does not power up, make sure that the Power Switch (no.1) is in "HOST" position, please refer to the *HHT Device Front Keypad* section.

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