



# **Serial Firmware Upgrade Utility PanelView 1200 Series F and G**

(Catalog No. 2711-KTUY2KF)

## **Contents**

These instructions describe how to upgrade the firmware in PanelView 1200 Keypad and Touch Screen terminals Series F and G only. This upgrade is for the following terminals:

2711-KA1	2711-TA4
2711-KA1X	2711-TA4X
2711-KC1	2711-TC1
2711-KC1X	2711-TC1X
2711-TA1	2711-TC4
2711-TA1X	2711-TC4X

## **Firmware Upgrade Utility**

The serial firmware upgrade utility allows you to download enhanced firmware to any Series F or G PanelView 1200 Operator Terminal using a personal computer and a download cable.

The utility can be used to upgrade both touch screen and keypad versions of the PanelView 1200 Operator Terminal. To download upgraded firmware, you need:

- Personal computer (286 minimum)
- DOS operating system ver 5.0 or later (if running Windows 95, reboot in DOS mode)
- 3.5 inch floppy drive
- serial port
- download cable (2711-NC1) or equivalent

## Upgrade Utility Contents

The upgrade utility contains the following files:

File name	Function
Download.exe	Executable file for downloads used by the upgrade utility. Do not run this file directly.
Upgrade.bat	Batch file that initiates the proper firmware upgrade based on the DOS command entered.
Readme.txt	Important information and notes. Make sure you read this before using the utility. Any information in the read.me file supersedes the information provided in these instructions.
Acc_func.bin	Firmware file for keypad terminals.
Acc_tuch.bin	Firmware file for touch screen terminals.

## Related Publications

The following publications provide additional information that may assist you if you have problems using the utility.

Publication	Number
PanelView 1200 Operator Terminals User Manual	2711-812
Upload/Download Cable Installation Data	40061-093-01(D)

## Connect the Upload/Download Cable

The upload/download cable (Catalog No. 2711-NC1) links the RS-232 port on the terminal with a serial port (usually COM1 or COM2) on a personal computer. Make sure the cable connectors are fully inserted and secure. If you require more information refer to the PanelView 1200 Operator Terminal user manual or installation data sheet provided with the upload/download cable.

## Prepare the PanelView 1200 Terminal

Before downloading firmware, you must first prepare the PanelView 1200 terminal for the download:

1. Set the **Mode Select** keyswitch to **Configure** mode.
2. Choose **Serial Port** on the **Configuration Mode** menu. Make sure that the PanelView 1200 terminal serial port is set as follows:

Baud Rate: **9600**

Parity: **None**

Data Bits: **8**

Stop Bits: **1**

Handshake Type: **None**

**Important:** If you need more information about changing serial port values of the operator terminal, refer to the user manual (Publication 2711-812)

3. After changing/verifying the serial port settings, select **Save & Edit** button to save these settings and return to the Configuration Mode menu.
4. Select **Upload/Download** from the Configuration Mode Menu.

The **Upload/Download** screen is displayed.

## Upgrade the Firmware

Firmware upgrades can be done from either DOS (recommended) or the MS-DOS from within Microsoft Windows. We also recommend that you copy the firmware files to a temporary directory on your computer's hard drive. This reduces the amount of time required to perform the firmware download.

1. Insert the firmware upgrade diskette in your computer.
2. Create a temporary directory on your computer (optional).
3. Copy the files on the firmware diskette to the temporary directory (optional).
4. Run DOS. If you are running Windows, select Shutdown from the Start menu and select Shutdown and Restart in DOS or open a DOS window (refer to the Start > Help menu for help if required).
5. At the DOS prompt change directories (**cd**) to the directory containing the firmware upgrade files.
6. Make sure you have prepared the PanelView terminal as describe in the previous section (Prepare the PanelView 1200 Terminal).
7. At the DOS prompt enter one of the following commands based on the terminal type and computer communications port:

UPGRADE TOUCH COM1

UPGRADE TOUCH COM2

UPGRADE KEYPAD COM1

UPGRADE KEYPAD COM2

8. Press **ENTER** to begin the firmware upgrade.

You are prompted to verify the terminal type. Press **Ctrl-C** to cancel the firmware upgrade.

**Note:** You can abort the firmware upgrade at any time during the serial download by pressing the Escape key on your computer's keyboard. After pressing Escape, the operator terminal displays a communications error and waits for the download to restart. The original firmware is still intact and may be re-activated by cycling the power to the operator terminal.

9. Press any key to proceed with the upgrade.
10. When the upgrade is completed, the PanelView terminal will reboot and display the **Configuration Mode** menu. To confirm the upgrade, verify that the Configuration Mode menu displays this version number:  
  
Firmware Rev 05.13.00 04/14/97 (060060)
11. You can switch the terminal back to run mode and resume running your application

## Troubleshooting

### Firmware Upgrade Does Not Complete

During the download of firmware to the terminal, you may see a communication error displayed on the personal computer. If this occurs, check the communication cables and serial port setting and try the upgrade again.

**Important:** If a firmware upgrade is started and does not complete, the current firmware is erased and you will have to attempt the upgrade again. If you cannot complete a firmware upgrade, contact Allen-Bradley Technical Support.

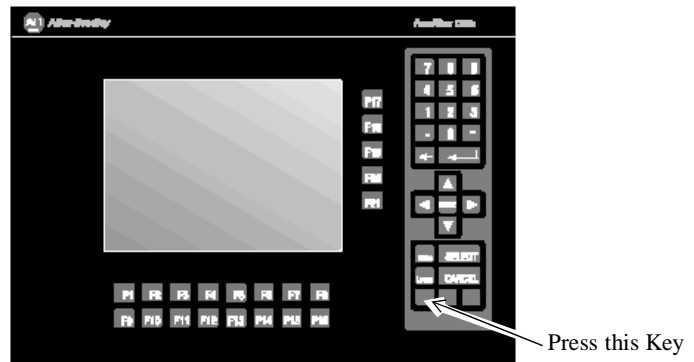
### Incorrect Terminal Type Firmware Downloaded - Recovery

If you accidentally downloaded the incorrect firmware to a terminal (touch screen firmware to a keypad terminal or vice-versa, refer to the following for recovery.

#### Keypad Terminal with Touch Screen Firmware

If you downloaded keypad firmware to a touch screen terminal:

1. Power up the terminal, if the terminal powers up in:
  - Run mode, then switch to Configure mode.
  - Configure mode, switch to run mode and then back to Configure mode. This clears the error message.
2. On the terminal keypad, press the leftmost, unmarked gray key (below Lower button).



3. Restart the keypad firmware download at the DOS prompt by entering either command:

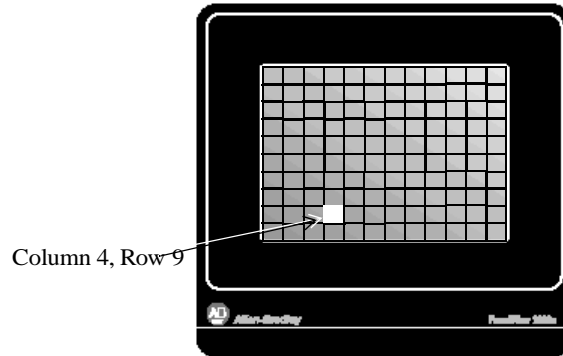
UPGRADE KEYPAD COM1

UPGRADE KEYPAD COM2

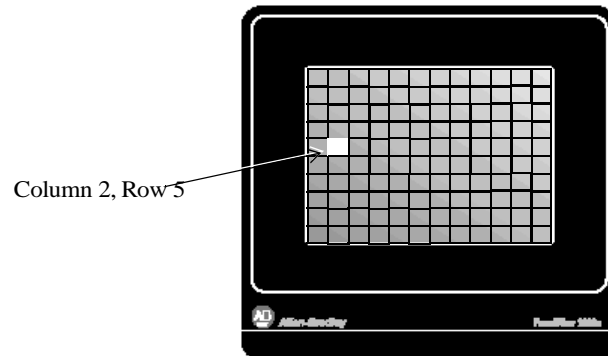
## Touch Screen Terminal with Keypad Firmware

If you downloaded keypad firmware to a touch screen terminal:

1. Power up the terminal, if the terminal powers up in:
  - Run mode, then switch to Configure mode.
  - Configure mode, press the touch cell at Column 4, Row 9. This clears the error message.



2. Press the touch cell at Column 2, Row 5.



3. Restart the touch screen firmware download at the DOS prompt by entering either command:

UPGRADE TOUCH COM1

UPGRADE TOUCH COM2

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