

ProTech[®] TPS Software Upgrade Procedure

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Introduction

This publication provides owners/users of old-style ProTech[®] TPS models with the necessary hardware and software requirements and instructions to convert them in the field to Woodward's latest ProTechTPS models. Refer to Woodward Product Change Notification 06909 for a list of all related product improvements.

The following files are needed to update the ProTechTPS Software to voted input functionality. These files are loaded on the ProTechTPS Software Upgrade Kit CD (BCD85278).

- ProTechTPS 5418-6348.wapp (ProTech application file)
- TPS_Voted_Inputs_Default_Settings.wset (factory settings file)
- 9927-1684.exe ProTech Service Tool Installer
- 9927-2146 DevToolForPasswordClearing.wstool Tool to clear the service tool password

WARNING

If these instructions are not followed, the configuration settings of the device will be lost.

NOTICE

Make sure your laptop PC is electrically isolated from earth ground, by either powering the laptop PC from its internal battery or by disconnecting the earth ground portion of the laptop PC's power cord.

Steps to Update the Software

1. Connect a regular serial cable (not a null modem cable) between the system module A service port on the ProTech and the computer. Note: the system module must be tripped before you can load software.
2. Open the Woodward ToolKit.
 - Using the existing service tool from the CD that came with the ProTech, connect to the ProTech.
3. Select the COM port that the computer's serial cable is connected to.
4. Select auto detection for baud rate.
5. If the ProTech has been previously configured and you want to keep the settings, save the customer settings file to be restored at the end of this procedure.

WARNING

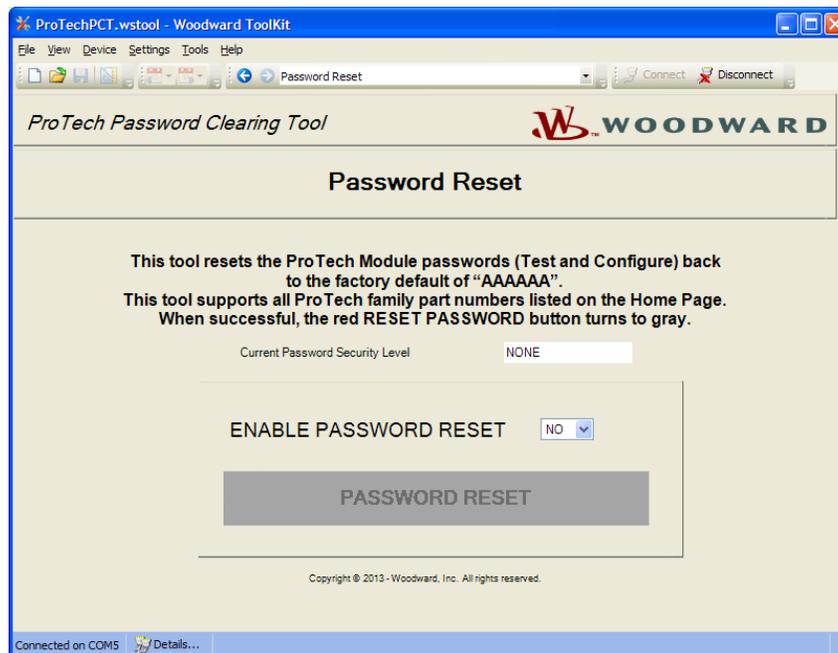
If you reload your previous settings files without modifying them, there will not be any sharing of the input signals.

6. Select "File| Load Application". Follow the screen prompts. Note that you must uncheck the Restore Settings box.
7. Browse to the .wapp file and select. Load the .wapp software on the ProTech.

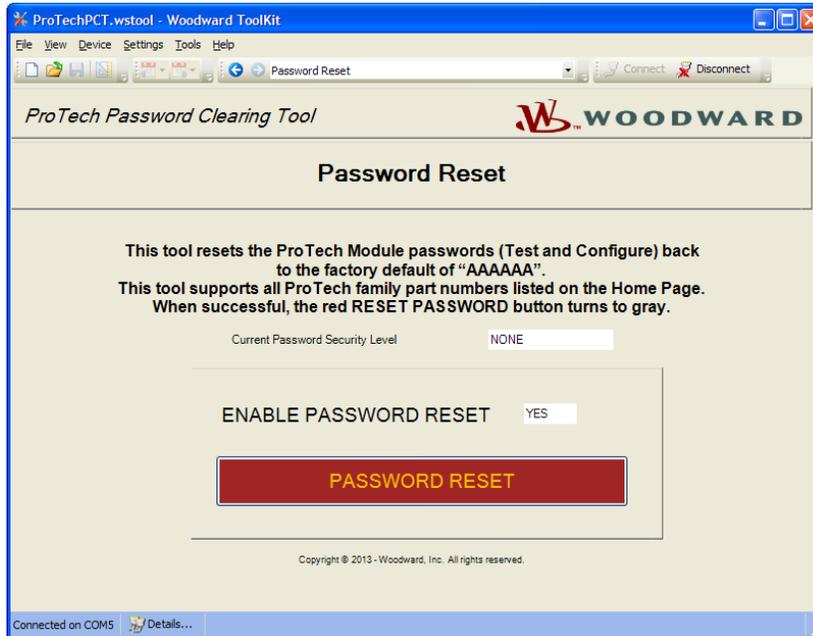
8. Repeat the steps above for system modules B and C on the ProTech.
 - Note: after loading the .wapp file, if the ProTech screen displays **PARAMETER ERROR**, this is normal.
 - After loading of the software is complete, cycle power on the ProTech. if the ProTech screen displays **PARAMETER ERROR**, this is normal.
9. Connect to each module and use the Password Clearing Tool 9927-2146 “DevToolForPasswordClearing.wstool” to reset all the passwords on the unit. Note that both passwords (Configuration password and Test password) will be reset. There is no option for resetting just one password.
 - Open the Password Clearing Tool; the initial screen will appear.



- Connect to module A through the RS-232 Service Port on the ProTech and press the “Connect” button on the tool. The following screen will appear.



- The Current Password Security Level should read NONE, indicating that the ProTech is not in Configuration mode. This is the correct reading for resetting the ProTech passwords.
- To reset the passwords, select “YES” for ENABLE PASSWORD RESET.
- The “PASSWORD RESET” button will change from gray to red as shown below.



- Click on the “PASSWORD RESET” button. After the passwords have been reset, the button will turn from red to gray, indicating the passwords have been reset for the module.
 - Repeat this process for modules B and C.
 - After resetting the passwords on all three modules, close the Password Clearing Tool app.
10. Now connect to the ProTech with the new service tool provided with this kit (9927-1684). The service tool should accept the default configuration password “AAAAAA”.
 11. Under the Settings pull-down menu, select “Load Settings File to Device” and load the settings file “TPS_Voted_Inputs_Default_Settings.wset” provided in this kit into each module.
 12. After the setting file has been loaded into all three modules, power cycle all modules. The ProTech should go into normal operation. Check the module information under the monitor menu and verify that each module is at software part number 5418-6348.
 13. If you want to reload your previous settings you will see a warning message that the settings file is for another application. Select “NEXT” to load.

WARNING

If you reload your previous settings files without modifying them, there will not be any sharing of the input signals.

IMPORTANT

Some previously configured functionality may be missing because of differences between versions. See Woodward Product Change Notification 06909 for changes.

Update the Identification Labels

As part of the software upgrade process, Woodward has recorded the serial number of the ProTech(s) that the software is being upgraded on. In this instance, that also means that the part numbers of the system modules and the ProTech itself have been changed. To keep all records accurate and up to date, it is very important that the Identification labels on the system modules and the ProTech itself be changed. The upgrade kit contains four labels, one for each system module and one for the ProTech.

System Modules Identification Labels

These labels have the serial number of the existing system modules in addition to the new system module part number printed on them. When the old system module Identification labels are replaced, it is very important that the serial number of the old module and the serial number of the new module are the same. When replacing these labels check that the serial numbers match. The identification labels are located on the right side of each system module.

ProTech Identification Label

This label has the serial number of the existing ProTech in addition to the new ProTech model part number printed on it. When replacing this label check that the serial numbers match.

- For ProTech panel-mount units, the Identification label is on the back of the front panel.
- For bulkhead mount ProTech units, the Identification label is on the lower left mounting leg of the unit.

Part Number Conversion Table

| | ProTech Part Number | | System Module Part Number | |
|-----|---------------------|-----------|---------------------------|-----------|
| | From | To | From | To |
| TPS | 8237-1248 | 8237-1602 | 5437-1076 or 5437-1117 | 5437-1130 |
| | 8237-1249 | 8237-1603 | 5437-1077 or 5437-1118 | 5437-1131 |
| | 8237-1250 | 8237-1604 | 5437-1066 or 5437-1115 | 5437-1128 |
| | 8237-1251 | 8237-1605 | 5437-1075 or 5437-1116 | 5437-1129 |
| | 8237-1371 | 8237-1606 | 5437-1076 or 5437-1117 | 5437-1130 |
| | 8237-1372 | 8237-1607 | 5437-1077 or 5437-1118 | 5437-1131 |
| | 8237-1373 | 8237-1608 | 5437-1066 or 5437-1115 | 5437-1128 |
| | 8237-1374 | 8237-1609 | 5437-1075 or 5437-1116 | 5437-1129 |

Appendix.

ProTech Software Upgrade Form

** Customer is required to affix new identification labels sent with the upgrade kit. Please fill out the new information below and send to your respective Customer Support Representative when completed.

Four blank identification labels will be sent, one for the ProTech and one for each of the three modules.

Customer Name: _____

Contact information: _____

Customer Address: _____

PO Number: _____

Current Woodward P/N of ProTech: _____

Current Rev of ProTech: _____

Serial Number of ProTech: _____

Current Woodward P/N for three modules: _____

Current Rev of three modules: _____

Serial Numbers of three modules: _____

New Woodward P/N of ProTech: _____

New Rev of ProTech: _____

New Woodward P/N for three modules: _____

New Rev of three modules: _____

Date identification labels applied: _____

We appreciate your comments about the content of our publications.

Send comments to: icinfo@woodward.com

Please reference publication **51478A**.



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