

ProTech-GII Upgrade

Overview

In January, 2018, Woodward released new ProTech-GII models and a Field Software Conversion kit. The new models include the same functionality as the older ProTech-GII models but with many product improvements and enhancements. Woodward recommends that customers who are purchasing ProTech-GII units for use in new applications order part numbers from the “new” part number list only. Refer to product manual 35086 for detailed product information.

Customers with older ProTech GII models (Rev D or later) may use the new Field Software Conversion kit to upgrade/convert their units to the new ProTech-GII models. Manual 51582 describes the conversion process.

Description of Changes

The new ProTech-GII software program is based on the older ProTech-GII software program and includes the below listed improvements/enhancements.

- Speed Loss (sudden speed loss): The failure threshold was made configurable and the fault action was expanded to include a selection of ‘not used’.
- Increased allowable ranges for speed settings from 32000 to 80000 rpm to facilitate turbo-expander applications. The maximum speed frequency remains at 32 kHz.
- A configurable low-pass filter was added to the acceleration signal.
- Chinese language support added as a configuration setting.
- Front Panel Display changes:
 - Speed display: Configurable filter added to the displayed speed value to reduce displayed speed variations. The precision of the speed value on the front panel provides one decimal precision when below 100 rpm.
- Improved front panel performance, providing faster response to a key press.
 - Trip button (front panel): Toggles display between the Trip Log and the Trip Latch.
 - Alarm button (front panel): Toggles display between the Alarm Log and the Alarm Latch.
 - Added Shared Reset, Shared Start and Shared Speed Fail Override display screens
 - Rearranged Trip Latch inputs to display more practical faults first (e.g. overspeed).
 - Auto Sequence Test: Displayed test result is for the entire sequence, not just the local module
- Modbus changes:
 - The outputs of all analog logic blocks have been included as Modbus analog/register reads.
 - Changed the address numbering (Boolean and register) to be consecutive, removing huge gaps in numbering.
 - Added Spare Boolean read registers to prevent errors experienced by devices that queried in increments of 16.
 - Added Scaled analog reads for speed and acceleration to accommodate values exceeding the 16-bit limits.

Compatibility Notes and Table

- Field Software Conversion kit **8929-039** can be used to convert any ProTech GII that is Rev D or later to the new models listed below. See table below for compatibility information.

Description	Part Numbers that Can Be Converted
ProTech-GII – Bulkhead Mount, HV/LV, Ind. Relays	8237-1244 Rev D or Newer or 8237-1594
ProTech-GII – Bulkhead Mount, HV/HV, Ind. Relays	8237-1245 Rev D or Newer or 8237-1595
ProTech-GII – Bulkhead Mount, HV/LV, Voted Relays	8237-1246 Rev D or Newer or 8237-1596
ProTech-GII – Bulkhead Mount, HV/HV, Voted Relays	8237-1247 Rev D or Newer or 8237-1597
ProTech-GII – Panel Mount, HV/LV, Ind. Relays	8237-1367 Rev D or Newer or 8237-1598
ProTech-GII – Panel Mount, HV/HV, Ind. Relays	8237-1368 Rev D or Newer or 8237-1599
ProTech-GII – Panel Mount, HV/LV, Voted Relays	8237-1369 Rev D or Newer or 8237-1600
ProTech-GII – Panel Mount, HV/HV, Voted Relays	8237-1370 Rev D or Newer or 8237-1601
ProTech-GII – Field Software Conversion Kit	8929-039

- Although optional when configuring the ProTech-GII, Woodward's ProTech Service Tool (9927-1810 Rev. J) is compatible with all new and old ProTech-GII models and can be obtained/downloaded from Woodward's website.
- Configuration files from older ProTech-GII models can be loaded into new ProTech-GII models using the ProTech-GII service tool. However, configuration files from new ProTech-GII models cannot be loaded into older ProTech-GII models.
- Customer with units older than Rev. D can return their units to Woodward for upgrade.

New Model Numbers

The following table shows the new/improved ProTech-GII part numbers:

Description	Non-Preferred Part Number	New Part Number
ProTech-GII – Bulkhead Mount, HV/LV, Ind. Relays	8237-1594	8237-2594
ProTech-GII – Bulkhead Mount, HV/HV, Ind. Relays	8237-1595	8237-2595
ProTech-GII – Bulkhead Mount, HV/LV, Voted Relays	8237-1596	8237-2596
ProTech-GII – Bulkhead Mount, HV/HV, Voted Relays	8237-1597	8237-2597
ProTech-GII – Panel Mount, HV/LV, Ind. Relays	8237-1598	8237-2598
ProTech-GII – Panel Mount, HV/HV, Ind. Relays	8237-1599	8237-2599
ProTech-GII – Panel Mount, HV/LV, Voted Relays	8237-1600	8237-2600
ProTech-GII – Panel Mount, HV/HV, Voted Relays	8237-1601	8237-2601
ProTech-GII – Field Software Conversion Kit		8929-039

Customer Action

- Customers who are currently using any ProTech-GII model and do not require any of the above listed changes/improvements should take no action. Woodward will continue to support the listed "non-preferred" models. Refer to the related product support plan for these models.
- Woodward recommends that customers who are purchasing ProTech-GII units for use in new applications order part numbers from the new part number list only.
- Customers who currently own an older ProTech-GII model and wish to have/utilize one or more of the above listed changes/improvements can send their old ProTech-GII model into Woodward Colorado, USA for a conversion to a new model. Optionally, if their current model is Rev. D or later, they can purchase Field Software Conversion Kit 8929-039 and install the conversion themselves or schedule a field conversion by an authorized Woodward field service engineer. Please contact your Woodward representative to schedule model conversions.

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Complete address / phone / fax / email information for all locations is available on our website.