

## **UG-25+ Control Service Tool Version 2.4 and Firmware 5418-2879 Rev. B Releases**

### **Explanation of Software Changes**

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#### ***General***

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Woodward has released application firmware 5418-2879 rev B as an upgrade to 5418-2879 rev A for all UG-25+ controls. The latest UG-25+ Service Tool (Version 2.4) is required for the new firmware and is compatible with all UG-25+ controls (Woodward part number 9927-1366). This application note describes the changes made. Refer also to the product manual 26330 for product details inclusive of all firmware releases.

#### ***Description of Firmware Changes***

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The new firmware is based on the existing firmware (5418-2879 rev A), with changes listed below. All of the listed changes are included with a firmware upgrade.

##### **1) Improved Speed Sensing**

The time required to detect speed, from the moment of a turning governor to sensing of this speed, has been reduced. Also, the speed filtering algorithm was improved to provide better speed resolution. This improvement will turn off hardware down-sampling in most applications, providing 4 times the number of pulses to the processor and thus giving much better resolution to speed. This will be especially noticed in applications where Cylinder Averaging is set to '1'.

##### **2) Service Tool Layout Changes**

The Service Tool screen layout has been changed, combining all faults to one tab called Shutdown/Stop.

#### ***Compatibility with Existing Controls***

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The new firmware, 5418-2879 rev B, will operate with all existing UG-25+ controls. Version 2.4 of the UG-25+ Service Tool (9927-1366) is required for the new firmware and is compatible with all UG-25+ controls. Configuration files created for previous firmware revisions are automatically converted when loaded into a control with the latest firmware (5418-2834 B). Configurations for the 5418-2879 B are not compatible with the older firmware.

#### ***Firmware Identification***

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The UG-25+ control firmware version can be viewed from the Identification tab on the Service Tool.

#### ***How to Upgrade***

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The UG-25+ firmware can be field upgraded, but requires specialized software tools and must be performed by authorized Woodward personnel. If you have any questions about this issue or wish to upgrade, please contact one of our Woodward facilities and refer to this Application Note number.



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