

## **5009-to-5009FT Upgrade Kit**

### **5009 Steam Turbine Control**

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# **5009-to-5009FT Upgrade Kit (5009 Steam Turbine Control)**

## **Upgrade Program Overview**

- The 5009-to-5009FT Upgrade Program is available to all owners of Woodward 5009 fault-tolerant control hardware. The program provides you with a clean and quick way to upgrade your existing 5009 system to a state-of-the-art Woodward 5009FT steam turbine control.
- Customer access to this upgrade is via Woodward's RTR (Recognized Turbine Retrofitter) network. See the reverse side of this sheet for the name of your RTR contact.
- The upgrade involves the replacement of certain 5009 modules with modern versions that perform the same control functions with improved performance.

## **Why Upgrade?**

- New CPUs and new Kernel Power Supplies—Existing 5009 CPUs, while still supported, are no longer sold as new
- Ethernet Communications Capabilities—Simplex or redundant configurations are included—your choice
- Converts ALL serial ports into fully-isolated ports
- New functions that can be configured into your application
- Inlet and Speed Decoupling—Useful in compressor applications
- SNTP Time Synchronization—Synchronizes control log files to plant DCS
- Extends the useful life of your 5009 by many years—no need to retrofit your control system!

## **Key Benefits for the Plant**

- Low risk
- Uses existing I/O modules and control chassis
- No field wiring changes required
- Uses the same application program settings as before
- Easy to upgrade—Module change-out and machine restart estimated at 3 to 5 hours
- Easy to Support—Included engineering workstation allows I&E techs to monitor system and securely make changes

## What's Included in the Upgrade Kit?

- The 5009-to-5009FT Upgrade Kit includes the following:
  - TMR CPU 5200 Module—Quantity 3
  - TMR Kernel Power Supply Module—Quantity 3
  - Engineering Workstation—Quantity 1
  - Ethernet Cables—Quantity 2
  - 24 V (dc) Power Supply (for Engineering Workstation & Ethernet switches)
  - New labels (5009FT)
  - Software Conversion Engineering (transfer of site-specific settings to new system)
  - Application Simulation Testing
  - 5009FT Software Program CD, manuals
- Ordering Info: Woodward part number 8923-1790, 5009 Upgrade Kit

## You May Want to Consider

- Optional HMI Kit, Woodward part number 8269-1012
  - OpView™ 17-inch (~43 cm) with IFIX Software Program
- Optional Integrating Actuator Driver Kit
  - MicroNet™ 2-Channel Integrating Actuator Driver Modules—Quantity 2
    - **Part Number: 5501-432 \***
  - MicroNet Actuator Driver Field Termination Modules—Quantity 2
    - **Part Number: 5417-672 \***

\* Does not include cables. Consult your account coordinator to select proper length cables.

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