



# AMERICAN GOVERNOR

## **DIGITAL GOVERNOR UPGRADE KIT** **For Woodward Gateshaft Governors**

American Governor has developed standardized digital upgrade kits for every type and model of Woodward Gateshaft Governor. Our kits are simple to install and include everything you need to upgrade, including Allen-Bradley™ PLC controller, cabinet, power supply, ElectroHydraulic Interface, local operator interface, high-resolution speed sensing and electronic feedback devices. Off-the-shelf components are used wherever possible to ensure long-term support.

### **Upgrade Benefits:**

- Reduced maintenance
- Enhanced control functionality
- Color touchscreen operator interface
- Utilizes standard, off-the-shelf components
- Interfaces easily with other plant systems:
  - Autosynchronizer
  - Plant Controller
  - SCADA System

### **Complete Package Includes:**

- Pre-wired Control Cabinet with PLC and accessories
- Emergency Stop Pushbutton
- Potential Transformer (PT) Speed Signal Module
- Color Touchscreen Operator Interface, featuring:
  - Unit Start / Stop Control
  - Display of All Unit Parameters
  - On-line Control Mode Selection
  - Unit Alarm Indication
  - Basic Trending and Event Log
  - Access to Tunable Parameters
- ElectroHydraulic Interface (EHI), including:
  - Proportional Valve for primary control of relay valve
  - Solenoid Valve for fail-safe emergency shutdown
  - Filter assembly, brackets and all mounting hardware
- Electronic position feedback devices for servomotor and relay valve
- Complete documentation for Operations and Maintenance (O&M)

### **Digital Upgrade Reduces Maintenance**

Gateshaft Upgrade Kits greatly reduce periodic maintenance because nearly all the wearing components of a Gateshaft Governor are removed: flyball assembly, pilot valve, dashpot, links, levers and mechanical restoring. The only items retained are the low-pressure oil pump, unloader, tank, relay valve, and servomotor, and AGC offers complete overhaul services for all retained components and assemblies.

• **REDUCED  
MAINTENANCE**

• **ENHANCED  
CONTROL**

• **SIMPLIFIED  
TROUBLESHOOTING/  
DIAGNOSTICS**

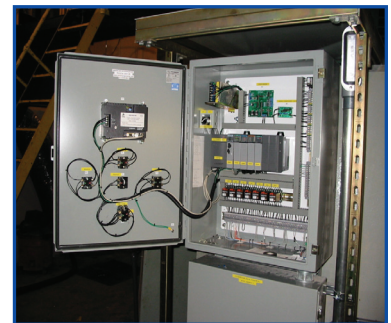
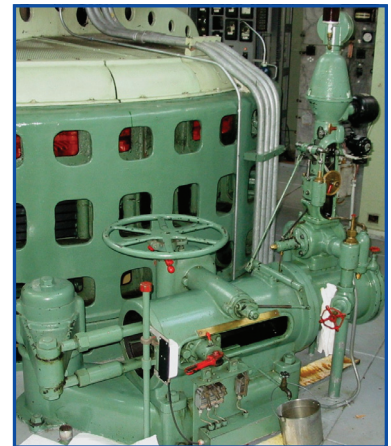
• **USES STANDARD  
OFF-THE-SHELF  
COMPONENTS**

• **SIMPLE TO  
INSTALL & TUNE**

• **INTERFACES  
WITH OTHER  
PLANT SYSTEMS**

• **COLOR  
OPERATOR  
TOUCHSCREEN**

• **COMPLETE  
O&M MANUAL**



## Factory Repairs are also Available for other Governor Assemblies:



Aux. Speed Switches



Brake Air Valves



Dashpots



Distributing Valve Plungers & Bushings



Analog Modules



Digital Modules

### Regional Offices Serve You Better!

Call today for governor parts, service, training, or technical support.

### Governor School is Back!

Every June in Wisconsin. Call your Regional Office for details.

### New and Reconditioned Parts Available

American Governor parts meet or exceed OEM standards.

### Nagging Governor Problems?

American Governor experts are just a phone call away.

### OEM Unsupportive?

American Governor supports all types and styles of hydro governors, produced by any manufacturer.

### Have an Emergency? Call Us!

American Governor has a wide variety of governor assemblies and auxiliary systems that can be sent out on short notice to get your unit running.



Wisconsin Training and Repair Facility

### Northwest Office

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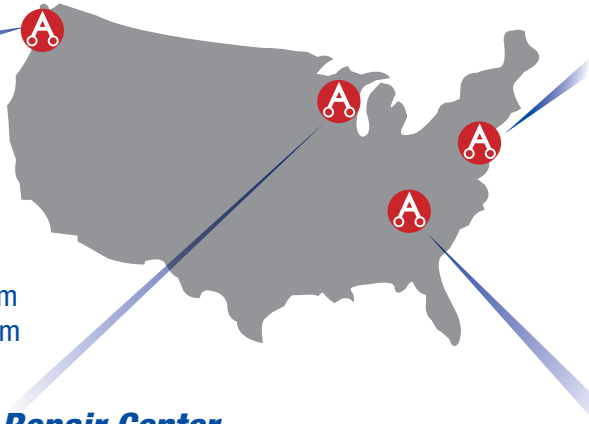
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From the Oldest Mechanical to the Newest Digital...  
**We Know Governors**