



Digital Interface Kit

Adapts Mechanical and Analog Governors to Digital Control

- **Economical Alternative to Digital Governor**
- **Improves Unit On-Line Control**
- **Simplifies SCADA Interface to Governor**
- **Retains Reliable, Familiar Governor Components**
- **Provides Advanced Communications:**
 - DH-485
 - RS-232
 - Ethernet (option)
- **Standard Kits for :**
 - Mechanical
 - Analog Electric
- **Simple Installation**
- **User Programmable**

Digital Interface (DGI) Kits are the economical alternative to digital governors. American Governor DGI Kits are pre-engineered for all types of mechanical and analog electric governors and allow you to retain the reliability and familiarity of your existing governors while adding the advanced control and monitoring functions of a digital governor. With a DGI, you get the best of both worlds!



For illustration only. Actual layout will vary

Our DGI Kits are complete, including Allen-Bradley™ PLC, cabinet, power supply, terminal blocks, interposing relays, governor transmitters, even a color touchscreen for local control and monitoring. Plus, the DGI complements your plant automation project by communicating with other controllers using industry-standard protocols.

Installation is simple and requires no major modifications within the governor cabinet. AGC Field Service Engineers are available to assist with installation, interconnection, set-up and testing, if required.

Basic Features

- > Retains existing pilot and distributing valves
- > Retains existing governor meters and switches
- > Retains existing Auxiliary Valve for Manual Control *
- > Relieves SCADA from controlling Gate Limit, Speed Adjustment motors
- > On-line control setpoints, ramp rates received via digital communication link
- > Automatic Dashpot Bypass control for improved loading and unloading rates
- > Governor Out-of-Calibration alarm
- > Health Monitor and Communication Failure alarms
- > Includes Gate Limit, Gate Position, Speed Adjustment transmitters

Enhanced Features

The Basic DGI can be enhanced with custom features such as:

- > Vary motor adjustment rate based on net head for consistent unit load/unload
- > Replace cam-actuated Gate Position, Gate Limit and Speed Adjustment switches
- > HPU monitoring and alarms (e.g. clogged filter, lag pump operation)
- > Monitoring of other governor auxiliary systems
- > Start-Stop control sequencing
- > Blade Control "3D Cam" function

Note: Enhanced features may require additional hardware.

DGI Kits are available for the following governors:

Mechanical Actuators (all manufacturers)

Analog Electric Actuators (all manufacturers)

* Provides slower-rate manual control independent of governor main distributing valve. Digital governor upgrades usually eliminate this important maintenance device.

American Governor Company - Contacts

We Provide Parts and Service for:

- **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.
- Whether **New or Reconditioned**, all American Governor parts come with our **standard one year warranty**.
- **Got 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**.



Gateshaft Governors



Mechanical Cabinet Actuators



Analog Cabinet Actuators



Digital Governors

Eastern Regional Office

Contact: Alan Fox

Knoxville (Maynardville) **TN**

Phone: (865) 992-1123

Fax: (865) 992-2921

Email: alanfox@americangovernor.com

Western Regional Office

Contact: Roger Clarke-Johnson

Seattle (Kirkland) **WA**

Phone: (425) 821-8076

Fax: (425) 821-4127

Email: rogercj@americangovernor.com

Headquarters Facility

Contact: Scott Ginesin

76 Steamwhistle Drive

Philadelphia (Warminster) **PA**

Phone: (610) 724-3144, (215) 354-1144

Fax: (215) 354-1782

Email: scottg@americangovernor.com

Training and Repair Facility

Contact: Rick Sheldon

588 Allen Street

Stevens Point (Amherst) **WI**

Phone: (715) 824-3800

Fax: (715) 824-5979

Email: ricks@americangovernor.com



Wisconsin Training and Repair Facility

For more information, visit us on-line at:

www.americangovernor.com