

# Governor Products

## Digital Interface Kit

### Adapts Mechanical & 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

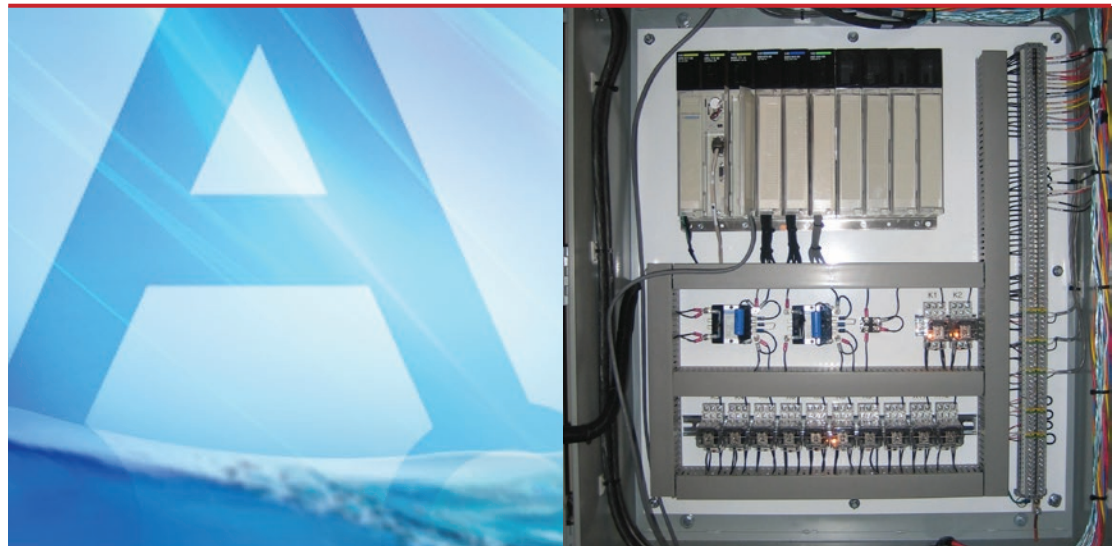
ADVANCED  
COMMUNICATIONS:

- DH-485
- RS-232
- ETHERNET  
(OPTION)

AVAILABLE  
FOR:

- MECHANICAL
- ANALOG

USER  
PROGRAMMABLE



Digital Interface (DGI) Kits are the economical alternative to digital governors. American Governor DGI Kits are custom 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!

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:

- Variable ramp rates based on net head for consistent unit load/unload
- Replace cam-actuated Gate Position, Gate Limit and Speed Adjustment switches
- Enhanced features may require additional hardware.
- HPU monitoring and alarms (e.g. clogged filter, lead/lag pump operation)
- Adjustment switches with discrete outputs
- Monitoring of other governor auxiliary systems
- Blade Control "3D Cam" function

#### DGI KITS ARE AVAILABLE FOR THE FOLLOWING GOVERNORS:

Mechanical Cabinet Actuators (all manufacturers)

Analog Electric Cabinet Actuators (all manufacturers)



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