

## SPEED GOVERNOR SEPAC / AMERICAN GOVERNOR

The SEPAC / AMERICAN GOVERNOR Speed Regulator is an innovative and economical solution that offers high performance and versatile control for new or existing turbines.

Holds the experience and KOW-HOW of the prestigious Woodward and American Governor brands



### **Advantages**

- *Standardized design that reduces installation, operation, spare parts and training costs.*
- *Design that does not require maintenance, thus eliminating calls to service.*
- *Commercial components to ensure their availability and profitable spare parts.*
- *Powerful control algorithms that offer fast system response.*
- *Optimized regulation modes for any system condition.*
- *Easy replacement of electrical and mechanical governors.*

### **High performance and versatile control**

- For Francis, Kaplan and Pelton turbines (up to 2 needles).
- Meets and exceeds international standards on the speed governor.
- Speed, power flow and level control.
- Isolated, online and offline control (adaptive PID parameters).
- Optimized turbine efficiency with needle / baffle control or CAM.
- Configurable position definitions of Kaplan blades or Pelton baffles for overspeed stop conditions and start detachment.
- Control of displacement, brake and synchronous condenser.
- Automatic-manual, local-remote operation. Automatic sync capability.

### **Powerful and cost-effective design**

- Modern technology based on the PLC (Modicon, AB or GE).
- Flash card control software, which allows quick "plug and play" replacements.
- Color touch screen interface (HMI) to control / configure / tune the system.
- Test and alarm screens to facilitate troubleshooting.
- Ability to force outputs for system and hardware verification.
- Configurable I / O ports to facilitate installation and functional expansion.
- Modbus protocol that integrates easily with the plant's IEDs and SCADA systems.
- Multiple speed sensing capabilities.

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