

GOV+

ELECTRONIC SPEED GOVERNOR FOR USE WITH PLC+ PANELS

- Provides speed governing function to PLC's or operates as stand-alone governor control.
- Integrated Ethernet port for communications to a PLC/PC or other communication device.
- Input from magnetic pickups or Hall-effect sensors.
- Specifically designed to interface with PLC+ panels and HMIs.
- User-selectable communication protocols: EtherNet/IP™ or Modbus/TCP
- On-board web page allows for configuration and monitoring.
- Amplified isolated output signal mimics input frequency.
- Actuator driver from configurable 4-20mA or 0-10V output with respect to speed.
- A discrete input is available for connection to an engine temperature monitoring switch to control warmup duration.
- Configurable startup logic: Ready, purging, starting, warmup, running.
- Three adjustable warmup ramps: configurable ramp speed. The desired speed can be adjusted remotely by a potentiometer or by 4-20mA (rpm/sec) and hold timers. Use one or all three.
- Configurable tuning parameters.
- Pluggable connectors with convenient push-in spring-cage connections.
- On board diagnostic LEDs.
- "Wink-Mode" for multiple PLC module identification.
- DIN-rail mounted.
- CSA and UL Certified for Class I, Division 2, Groups C and D.

The PLC+ product line was developed by Altronic to allow easy integration of engine/compressor/generator function specific I/O through Ethernet to industry standard PLCs. The PLC+ Modules are designed to seamlessly deliver efficient, hazardous area approved, cost effective I/O functions that are not normally available by off-the-shelf PLC hardware.

The PLC+ modules were designed with Rockwell Automation Control Logix and Compact Logix in mind. EtherNet/IP, implemented in the PLC+ Monitors, along with Modbus/TCP, allow seamless communication over Ethernet to Rockwell Automation PLCs as well as a wide range of other industrial PLCs. The PLC+ Monitors are based upon taking a time tested Altronic designed device with specialty I/O functions such as Analog and digital I/O, vibration, detonation, speed, and others and marrying it to a communications board packaged in a rugged, cost effective, shock and dust-resistant package.

The GOV+ Electronic Speed Governor is a module in the PLC+ product line. It provides closed loop speed control of an engine by controlling an actuator. It can communicate to PLC's to monitor and control processes via Ethernet/IP or Modbus TCP. The speed input pulse can come from magnetic, Hall-effect, or other types of active pickups. A configurable 4-20mA or 0-10V analog output signal can be used to control an actuator position to control the speed. The GOV+ has the following startup logic: ready, purging, starting, warmup, and running. The GOV+ has three adjustable warmup ramps with configurable ramp speed in rpm/sec with hold timers. The GOV+ is designed for use as a component of a PLC+ Control Panel, or as a stand-alone product. PLC+ panels use one or more such devices for engine control and monitoring. The Ethernet port allows the monitored values to be communicated to a PC, PLC, or other communications device using either Modbus/TCP or EtherNet/IP protocol. These values can be displayed on an HMI display and compared to user adjustable setpoint levels for sequencing, and/or alarm and shutdown.



