VANTAGE® GP

A Purpose-Built Digital Governor Designed Specifically for Optimum Control of General Purpose Turbine Applications.

Compressor Controls Corporation's ***VANTAGE® GP*** digital governor provides OEMs and end-users with a versatile speed controller for general-purpose steam turbine applications.

More Than Just A Governor

VANTAGE GP offers a combination of benefits, capabilities, and features you can't get from other mechanical or electronic governors:

- Selectable process control modes including manual control, remote process control and cascade control.
- Versatile and economical ways to control turbine speed based on process variable such as pump discharge pressure or flow.
- Lower machinery repair costs because automated start-up sequencing provides consistent warm-up and prevents operation at critical speeds.
- Remote operator interface using hardwired inputs or Modbus RTU protocol.
- Optimum control of driven equipment providing precise control based on speed or process variable requirements.
- Simplified operation due to integral manual control capability, protective override, and fully automated start-up and shutdown sequencing.

Features

- Alphanumeric 4 line x 20 character vacuum florescent display provides access to operating and configuration parameters
- Modbus RTU protocol providing remote operator interface
- Multilevel password protection
- Bumpless transfer among all control modes
- Manual operation with automatic override allows direct valve positioning
- Variable gain and reset rates
- Secondary overspeed trip capabilities
- Compatible with pneumatic and hydraulic actuation systems
- Alarm and event history log

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Control Features

VANTAGE GP offers the speed control features you expect from a GP turbine governor, such as overspeed testing, local and remote set points, and automatic start-up with critical speed avoidance.

It also features a cascade loop that functions in two different modes. One is a conventional cascade mode, whose output drives the set point of the speed control loop. The other mode allows the Vantage to control a discharge-throttling valve on a pump to regulate pressure or flow once the turbine reaches minimum governor. If discharge throttling is enabled, the cascade loop will automatically switch from conventional mode to discharge throttling mode and back again based on the turbine speed.

You save money by not having to purchase a separate controller for the outer cascade loop.

Operator Interface

All configuration, operation, and maintenance activities for ***VANTAGE GP*** can be performed using the local operator interface. A separate computer or operator panel is not required, minimizing your installed cost.

Two separate keypad areas are provided on the ***VANTAGE GP*** front panel. One is exclusively for configuration and maintenance, while the other is for machine operation. This provides the simplest and most intuitive interface possible for your plant operators.

If you prefer for your plant personnel to have a consistent operator interface, ***VANTAGE GP*** can also be completely configured, operated, and maintained from your plant DCS using the standard Modbus RTU interface.

Specifications

- Input power 85 to 265 Vac (optional 18-32 Vdc)
- 2 magnetic pickup inputs
- 12 Discrete Inputs
- 6 Discrete Outputs
- 3 Analog Inputs
- 3 Analog Outputs

Environmental Specifications

- –40 to +65 C operating range
- 5 to 95 percent humidity (non-condensing)
- IP-54 type enclosure
- Hazardous Area Certification:
  - USA: Class 1, Division 2, Groups A-D, T3
  - Canadian: Class 1, Zone 2, Group IIC, T3
  - European (ATEX): Group II, Cat. 3, G, EEx, nACL, IIC, and T3

COMPRESSOR CONTROLS CORPORATION

AN ISO 9001: 2000 CERTIFIED COMPANY

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