

# Guardian™

Proven control solutions for rotating equipment



Increase uptime, optimize energy use, and reduce emissions with Guardian solutions

## GM series

- > Ideal for small to medium horsepower applications and panel retrofits
- > Incorporates industry standard non-proprietary hardware and software
- > User-friendly operator screens – password protected for maintenance and configuration
- > Integrated controls viewable on HMI for:
  - Caterpillar ADEM
  - Waukesha
- > cCSAus certified Class 1 Division 2 hazardous areas

## Features

- > PLC-based controller
- > 4, 7, 10, 12" color HMI
- > Diverse configurable inputs, including:
  - Class A/B/C shutdown
  - Alarm
  - Cool down/hard stop
  - Emergency shutdown (ESD)
  - 6 selectable Class B timers
- > 16 built-in PID loops configured for multiple processes, including standard features:
  - Online tuning
  - Online setpoint adjustment
  - Auto-manual selection
  - Low/high select logic
- > One-touch start logic
- > Automatic or manual loading sequences
- > Yard valve sequencing logic
- > Multiple languages available
- > First-out alarming
- > Transmitter failure detection and alarming
- > Real-time and historical alarm summaries
- > Online configuration of alarm setpoints, ranges, and timers
- > Maintenance mode for online bypass of switch, transmitter, and thermocouple inputs
- > Maintenance mode for testing outputs
- > Standardized SCADA interface

## Specifications

- > Panel power: 24 VDC, 5 A nominal
- > Digital inputs - up to 36
  - 24 VDC, NO or NC
- > Digital outputs - up to 28
  - Dry or wetted relay contacts
  - Solid state outputs
- > Analog inputs - up to 32
  - Thermocouple / RTD
  - 4-20 mA / Voltage
- > Analog output - up to 8
  - 4-20 mA
- > Operating temperature
  - Hardware dependent
- > Enclosure
  - Manufactured to order
  - Typical 30" H x 30" W x 12" D
  - Front access
- > Stands and instrumentation
  - Pre-mounting of transmitters, solenoids, and I/Ps
  - Optional panel stands/plinths available

Schneider Electric  
10900 Equity Drive, Houston, TX 77041 USA  
Tel: +1-713-775-5028  
guardiancontrol@schneider-electric.com  
www.schneider-electric.com

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