

Guardian™

Proven control solutions for rotating equipment



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

GC series

- > Ideal for medium to large 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 ESM
 - Air-fuel ratio (AFR)
 - Emissions
 - Detonation
 - Ignition
- > cCSAus certified Class 1 Division 2 hazardous areas
- > Conforms to ATEX standards

Features

- > PLC-based controllers
- > Colour touch-screen HMI, various sizes
- > Diverse configurable inputs, including:
 - Class A/B/C shutdown
 - Alarm
 - Cool down/hard stop
 - Emergency shutdown (ESD)
 - 6 selectable Class B timers
- > 19 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
- > Dual units
- > 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, 10 A nominal
- > Digital inputs - up to 64
 - 24 VDC, NO or NC
 - Non-incendive
- > Digital outputs - up to 64
 - Dry or wetted relay contacts
 - Solid state outputs
- > Analog inputs - up to 128
 - Thermocouple / RTD
 - 4-20 mA / Voltage
- > Analog output - up to 32
 - 4-20 mA
- > Operating temperature
 - Hardware dependent
- > Enclosure
 - Manufactured to order
 - Typical 1500 H x 900 W x 300 D mm
 - Front access
- > Stands and instrumentation
 - Pre-mounting of transmitters, solenoids, and I/Ps
 - Optional panel stands/plinths available

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