

Guardian™

Proven control solutions for rotating equipment



Typical application engines and electric drivers

Applications	Reciprocating compressors, rotary-screw gas compressors, coalbed methane compressors, VRU compressors, pumps
Engines	Caterpillar, Waukesha, Ajax, Cooper, Ingersol Rand, Fairbanks, Superior, etc.
Compressors	Ariel, Dresser Rand, Cooper, Frick, Gemini, Howden, Sullair, Superior, etc.

Panel hardware

PLC	Multi-vendor PLCs available		
HMI	Multi-vendor HMI systems available		15" color touch-screen Windows PC
Digital inputs	Up to 36	Up to 64	Up to 120
Digital outputs	Up to 28	Up to 64	Up to 64
Analog inputs TC / RTD	Up to 32	Up to 128	Up to 128
Analog outputs	Up to 8	Up to 32	Up to 32

Communications

Ethernet	Yes	Yes	Yes
Modbus	Yes	Yes	Yes
DH Plus	Optional	Optional	Optional
Engine panels	ESM / ADEM	ESM / ADEM	ESM / ADEM

Features

Standard PID loops	16	19	32
Single setpoint suction control	Yes	Yes	Yes
Single setpoint discharge control	Yes	Yes	Yes
Inlet level override control	Yes	Yes	Yes
Load/horsepower override control	Yes	Yes	Yes
Blowcase control	Yes	Yes	Yes
Load/horsepower calculations	Yes	Yes	Yes
Trending	Graphical	Graphical	Graphical
First-out alarming	Yes	Yes	Yes
Transmitter-failure alarming	Yes	Yes	Yes
Real-time and historical summaries	Yes	Yes	Yes
Online configuration of alarm setpoints and ranges	Yes	Yes	Yes
Mode for soft bypass	Yes	Yes	Yes
Mode for testing outputs	Yes	Yes	Yes
Standardized alarm setpoints and ranges	Yes	Yes	Yes

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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