

VILTech micro-controller for Vilter™ reciprocating compressors



Full compressor protection

- Simple and reliable design
- Easy to use and navigate
- Remote communications capabilities
- Multi-compression sequencing

Control features

- Automatic capacity control based on suction pressure
- Manual, Automatic, Remote and Sequencing modes
- Monitors suction, discharge and oil temperatures and pressures
- Differential oil pressure monitoring
- Motor auxiliary contact monitoring
- Seven day and one week setpoint scheduling
- Operation, trend, alarm, failure, and user access logging
- Anti-cycle timer
- Password protection
- Built-in diagnostics
- Power failure recovery and automatic re-start
- Unloading and limiting based on discharge pressure
- Ramp startup based on discharge pressure
- Capacity ramp for slow loading after start
- English or SI units
- Save and restore setpoints to on-board memory
- RS-232 communication port
- RS-422/485 communication ports for Modbus® RTU and multi-compressor sequencing

Special Features

- Process temperature control
- Integral two-stage compressor control
- Compressor sequencing for up to 8 compressors
- VFD motor control
- Modbus ethernet communications

Construction

- 16" x 16" x 6" NEMA 4 enclosure
- 30 button keypad
- LCD display screen with backlight
- 4 LED indicator lights
- Emergency stop button
- UL® & CUL® Listed
- Operating temperature -20:+70° C
- Storage temperature -40:+80° C

Hardware

Main controller board

- Program memory (EPROM)
- Battery backed up memory (RAM)
- Nonvolatile setpoint storage (EEPROM)
- Analog input processing
- Communication ports

Display Adapter Board

- Interface to display and keypad
- Current limiting for LED backlight and LED's

AC/DC power supply

- Dual output +5 VDC and +24VDC
- Internally fused
- 120 VAC 50/60 Hz supply

I/O board

Analog inputs

- All sensors are 4-20 mA
- Four temperatures
- Four pressures

Solid-state discrete contact inputs

- Motor auxiliary
- Safety circuit
- Remote start/stop
- AUX 1 shutdown

Discrete outputs

- Motor start
- Six stages of loading/unloading
- Alarm/failure signal
- Crankcase heater
- Oil return
- Head cooling control

For more information visit www.vilter.com

EmersonClimate.com

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