

PULSAFEEDER CRUISE CONTROL®

Variable Speed Control

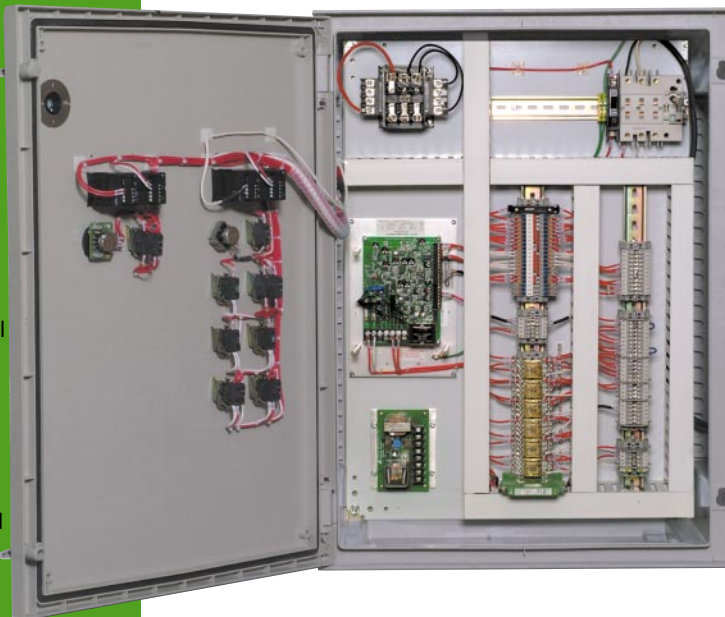
*A World of Pumping
Technology at Your Control*

Pulsafeeder is the recognized world leader in metering pump design and technology —the standard by which other metering pump manufacturers measure quality, reliability, and performance. Now, Pulsafeeder has applied our fluid pumping technology and pump controller expertise to develop a fully functional, modular control panel specifically designed for reliable variable speed control of DC, AC inverter, and AC vector duty motors. Pulsafeeder **Cruise Control®** is available in multiple configurations to provide a world of modular customization and establish a new standard for high quality, and reliable performance.

In fact, Pulsafeeder guarantees reliability with a **standard three-year drive warranty!**

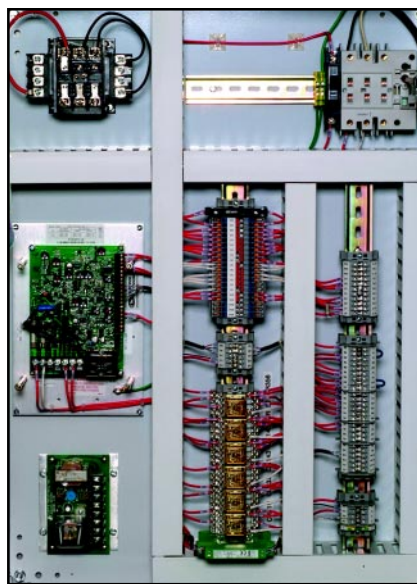
Base Configuration:

- NEMA 4X FRP or 316SS Enclosure
- 120/240 VAC, 1 ϕ Input Voltage
- 90 or 180 VDC Armature Voltage (1/2 to 2 HP)
- Branch rated short circuit protection
- Standard control configuration
 - Panel mounted speed pot.
 - Remote 4-20mA (isolated) speed reference
 - Local or remote drive START/STOP control
 - Provisions for remote NC E-Stop input
- System Status Indication
 - Power On pilot light
 - Motor Run pilot light with dry contact output
 - System Fault pilot light with dry contact output



- DC, AC and VECTOR Drive options deliver the optimal solution for any application.
- Designed to ANSI, NFPA, an UL standards.
- Modular design permits field expansion if requirements change.
- Matched" motor/drive combination optimize performance.
- Pre-calibration minimizes field adjustments.
- Proven design and 100% factory testing ensures long-term reliability.
- Component standardization reduces cost and lead-time.

100,000 hour surge protected LEDs eliminates bulb replacements for up to 10 years.



Color-coded terminal block labeling significantly simplifies wiring.

PULSAFEEDER®

A Unit of IDEX Corporation

Quality System ISO9001 and ISO14001 Certified

IDEX
IDEX CORPORATION

Degree of Protection

— Enclosure and optional disconnect – NEMA 4X
Percent Speed and Stroke Meter – IP65

Input Voltage Input Frequency

— 120 / 240 VAC \pm 10%, single phase
— 50 / 60 Hz \pm 2 Hz

HP Range

— 1/4 to 1 HP @ 120 VAC
1/2 to 2 HP @ 240 VAC

Speed Regulation (95% load change)

— DC Armature Voltage: \pm 1% of maximum speed
 Tachometer Feedback: \pm 0.5% of base speed

AC \pm 1% of motor base speed (open loop)

AC VECTOR \pm .02% of motor base speed

Tachometer Voltage @ max. speed

— Low Position: 6.5 to 17.4 VDC
High Position: 60 – 160 VDC

Overload Capacity

— 150% of maximum rating for 60 seconds

Analog Inputs

— Remote Speed Reference: 4-20 mA, 50 ohm impedance

Logic Inputs

— Drive Start:
Remote Dry Contact, close to run
Remote 120 VAC input (optional), energize to run
Remote 24 VDC input (optional), energize to run
Motor Thermal Fault (optional):
NO input, closes under fault condition
High Discharge Pressure Fault (optional):
NO input, closes under fault condition
PULSALARM™ Diaphragm Leak Detection Fault (optional):
NO input, closes under fault condition
CHEMALARM Diaphragm Leak Detection Fault (optional):
External probe, 24 VDC, energizes under fault condition

Analog Outputs

— Percent Speed and Percent Stroke (optional):
4-20 mA, 500 ohm, short circuit protection

Logic Outputs

— System Fault:
NO contact, closes under fault condition, 5A @ 240 VAC
Drive in Remote:
NO contact, closes in remote mode, 3A @ 120 VAC, 1.5A @ 240 VAC
Drive Run:
NO contact, closes when drive running, 5A @ 240 VAC

System Options

— Digital Motor Percent Speed Meter
UL 98 Rated Rotary Disconnect
DC Armature Contactor
Elapsed Time Meter
4-20mA Speed Reference Output (isolated)
Fault Detection Options
Interlocked CHEMALARM Diaphragm Leak Detection
Interlocked PULSALARM Diaphragm Leak Detection
Interlocked Motor High Temperature Alarm Circuit (NC input)
Interlocked, Delayed High Discharge Pressure Circuit (NO input)



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