











# Features and Benefits

## Electronic control by model



Control Version

Manual model	Enhanced model	Communications model
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	Manual model	Enhanced model	Communications model
<b>User Interface</b>			
Four Color Backlit graphical display	●	●	●
Flow rate or volume display (GPH, L/hr)	●	●	●
Capacity setting display	●	●	●
Start/Stop button	●	●	●
Mode/Select button	●	●	●
Full capacity (100%) button	●	●	●
Prime button	●	●	●
Active operation mode indication on display	●	●	●
Active alarm indication on display	●	●	●
Calibration status indication on display	●	●	●
<b>Operation Modes</b>			
Manual (Internal)	●	●	●
Analog [0/4-20 mA] (External)		●	●
Pulse [volume/pulse] (External)		●	●
Batch (External)		●	●
Cycle Timer (Internal)		●	●
Timed event (Internal)		●	●
<b>Control Input</b>			
Programmable digital contacts	1	4	4
User 1		●	●
User 2		●	●
User 3		●	●
Single level float switch	●	●	●
Dual low level float switch		●	●
Pulse control		●	●
Remote start/stop	●	●	●
Remote internal/external mode selection		●	●
Programmable analog inputs	0	2	2
Pacing		●	●
Tank level		●	●
<b>Control Protocol</b>			
Modbus RTU*			●
Profibus DP*			●

Control Version

Manual model	Enhanced model	Communications model
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	Manual model	Enhanced model	Communications model
<b>Control Output</b>			
Programmable digital contacts	0	2	2
Pump running		●	●
Pump standby/stopped [not pumping but ready]		●	●
Alarm status		●	●
User alarm status		●	●
Internal/External mode indication		●	●
Pump stopped		●	●
Stroke pulse		●	●
Timed event running		●	●
Programmable analog output	0	1	1
Flow rate [4-20 mA correlates to 0 - max capacity]		●	●
Mirror analog input 1		●	●
Mirror analog input 2		●	●
Power supply for remote device [24V] (eg. Flow sensor)	0	1	1
<b>Operation functions</b>			
Capacity control by motor speed variation	●	●	●
Variable stroke profile (variable discharge speed/constant suction speed)	●	●	●
Slow suction mode for viscous or degassing media	●	●	●
Calibration function (single point)	●	●	●
Prime feature (max capacity) button, timer	●	●	●
Totalizer (strokes, volume, hours motor operation, number of power cycles)	●	●	●
Keypad lock (software driven with password)	●	●	●
Clock feature (date and 12 hour time)	●	●	●
Diaphragm replacement mode (sets stroke to extended position)	●	●	●
Display firmware revision	●	●	●
Load factory defaults	●	●	●
Battery to maintain date and time settings when main power is removed	●	●	●
EEPROM nonvolatile memory (configurations saved/powers up in last used mode)	●	●	●
Internal/External input control mode configuration	●	●	●
Alarm output mask configuration (configure which events trigger alarm output relay)	●	●	●
Analog input response curve customization		●	●
Input pulse width setting		●	●
Start/Stop via remote signal	●	●	●
Pump switch off on tank empty	●	●	●
Modbus RTU / Profibus DP protocol			●
StayPrime Degassing Technology	●	●	●
Alarm Log	●	●	●

\* Must order pump configured for your control protocol  
IL - (847) 841-7867



## Making PROTEUS pumps work for you

### For integrators

Specifying PROTEUS metering pumps for critical systems gives process systems integrators the best guarantee of reliability, accuracy, and performance in challenging environments.



### For operators

Consider the value of installing an PROTEUS metering pump when making updates to your equipment. The PROTEUS pump series offers field-proven dosing technology, a state-of-the-art technology platform, and an easy-to-use navigation system all backed by authorized industry experts to support you long after the installation.

### Options and accessories

A wide range of options and accessories are available to customize the PROTEUS metering pump to your application.

Mechanically actuated diaphragm liquid end materials:

- Polypropylene
- PVDF
- 316L stainless steel

PROTEUS accessories include:

- Backpressure valves
- Safety valves
- Pulsation dampeners
- Calibration columns




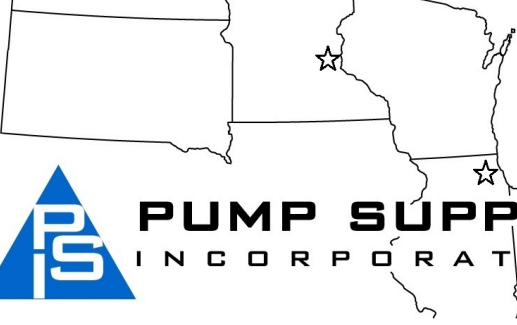
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PumpSupplyInc.com

The Pump Supply Incorporated logo consists of a blue triangle containing the white letters 'PS' stacked vertically. To the right of the triangle, the words 'PUMP SUPPLY' are written in a large, bold, black sans-serif font, with 'INCORPORATED' in a smaller, spaced-out, black sans-serif font below it.

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