

# ImPulse CL

## Variable Speed Milk Pump Control



### Continuous Level Variable Speed Milk Pump System

- ◆ Continuous Level Probe
- ◆ Separate Wash and Milk Modes
- ◆ Overflow Alarm Feature
- ◆ Power Consumption Meter
- ◆ The CL Probe has only one S.S. Float

### System Features

#### Controller

The Controller has Manual Pump Out Switch, plus a Milk/Wash Switch mounted on the cover. Inside there are terminals to easily wire in the Alarm circuit, a remote Milk/Wash Switch, a remote Manual Pump Out Switch and terminal connections for the Plate Cooler Water Valve.

#### Probes

The ImPulse CL Controller works with 4-20ma Continuous Level Float/Probes. The ImPulse CL Single Float Probes with 1" resolution comes in 4 different sizes 24", 30", 40" & 60".

#### Separate Modes for Milk & Wash

You can have different Minimum and Maximum speed settings for Milk and Wash. This allows you to optimize your milk cooling capabilities and can be customized for each receiver.

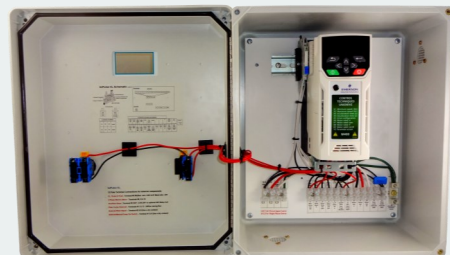
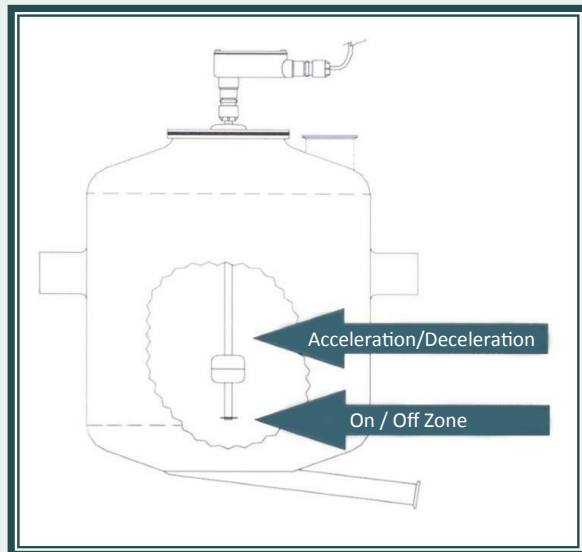
#### Additional Milk Mode Features

Optional Overflow Alarm with 32 adjustable tones is available if receiver starts to flood.



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Controllers	
35150NP	ImPulse CL 2HP VSD, 230V, Dual Rate 1 & 3 Ph
35160NP	ImPulse CL 2HP VSD, 460V, 3 Phase
35155NP	ImPulse CL 3HP VSD, 230V, Dual Rate 1 & 3 Ph
35165NP	ImPulse CL 3HP VSD, 460V, 3 Phase
35170NP	ImPulse CL 5HP VSD, 460V, 3 Phase
Float Probe	
34902NP	24" Continuous Level Probe & Float (18" read range)
34903NP	30" Continuous Level Probe & Float (24" read range)
34904NP	40" Continuous Level Probe & Float (34" read range)
34906NP	60" Continuous Level Probe & Float (54" read range)
Relays for Wash, Alarm, PD Pump CIP	
P29753NP	Control Relay - 220V Coil AC/DC 6amp 250V
P29752NP	Control Relay - 120V Coil AC/DC 6amp 250V
P29751NP	Control Relay - 24V Coil AC/DC 6amp 250V
P29750NP	Control Relay - 12V Coil AC/DC 6amp 250V
Cable	
29700NP	Cable for VSD - 16 AWG, 4 Conductor, 12A Cont For 2/3HP 230V or 2,3 & 5HP 460V (Per Foot)
29710NP	18/2 Shielded Control Cable (Per Foot)
Overflow Alarm	
R35505NP	Overflow Alarm for ImPulse CL, Amber (Must order P29751NP Control Relay to connect to ImPulse CL)
E-Stop	
P19829NP	E-Stop with 1 NC Contact



The ImPulse Controller varies the milk pump speed in order to pump the milk through a plate cooler as slowly as possible while still keeping up with milk inflow in the receiver. Usually the pumping rate is significantly less than the maximum, so the cooling efficiency of the plate cooler is increased, resulting in reduced electrical needs for refrigeration.



4904 Triangle St, Suite A McFarland WI 53558 Phone 800-233-6878  
 Fax 608-838-2221 Email [info@ezmilking.com](mailto:info@ezmilking.com) Website [www.ezmilking.com](http://www.ezmilking.com)