

## Model PSM-660U Ultrasonic Pump Station Flow Monitor Controller

<ul style="list-style-type: none"><li>* <b>200 Daily Flow Totals with Daily Pump Summary</b></li> <li>*<b>Time Stamped Detailed Data Logging of Pump Cycles</b></li> <li>* <b>5 Programmable Relay Outputs</b><ul style="list-style-type: none"><li>*<b>Two 4-20 mA Outputs</b></li> <li>*<b>Control Up To 4 Pumps</b></li> <li>*<b>Quick, Easy Setup</b></li></ul></li> <li>*<b>Flow Rate Meter and Pump Controller in One Inexpensive Package</b></li> <li>* <b>Ideal for Billing Purposes</b></li></ul>		<p><a href="#">Specifications</a></p> <p><a href="#">Scope</a></p>
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### *Description*

The PSM-660U Pump Station Monitor is the quickest and easiest method of controlling and monitoring flow through your sewage lift-station. The system uses the latest in Ultrasonic echo ranging technology to monitor the level in a wet well. The sensor is non-contacting, safe and simple to install. No need for personnel to climb down into the wet well. Use the PSM-660U to up-date an existing pump station or provide for a new installation. Simply enter the wet well dimensions and pump start/stop elevations with one intermediate elevation for inflow rate. The PSM-660U will do all the volume calculations and pump control accurately, reliably, automatically.

The system includes data logging with a **200 day daily summary report** providing the date, total number of pump cycles, total run time of pumps, average GPM pumped and **total pumped for each day**. In addition, a detailed data logging records the date, start time and run time of each pump cycle, the total pumped for each cycle, the inflow GPM rate, the GPM pump rate and sequentially numbers the pump cycles. A time stamped EVENT list is provided to record actions the monitor has made. The 200 daily flow totals can be viewed at the monitor or printed directly to a serial printer. All datalogg, including the 24 hour summary, the detailed pump record and time stamped Event list can be downloaded to a PC directly or by MODEM using the RS-232 output (USB port opt.). Any standard communication software package such as Microsofts Hyper Terminal may be used to receive the data and save it to file. No need to purchase and learn new software. All data is preformatted for reports..

The PSM-660U provides three (3) pump control relays, two (2) alarm relays and two (2) 4-20mA outputs.

***The accuracy and simplicity of the PSM-660U Monitor makes it an ideal choice for billing purposes.***

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**Pump Station with 4 Pumps - Control and Monitor the 'volume throughput' of the Wet Well.**

*How It Works*

The PSM-660U Flow/Pump Monitor is a microprocessor based system that uses operator entered dimensions of the wet well and pump ON/OFF elevation points to calculate a volume pumped from the wet well. With the addition of an intermediate elevation point, the flow monitor will calculate the inflow GPM just prior to the start of the pump cycle. The inflow value is then applied to the volume pumped in calculating the total volume throughput for the pump cycle.

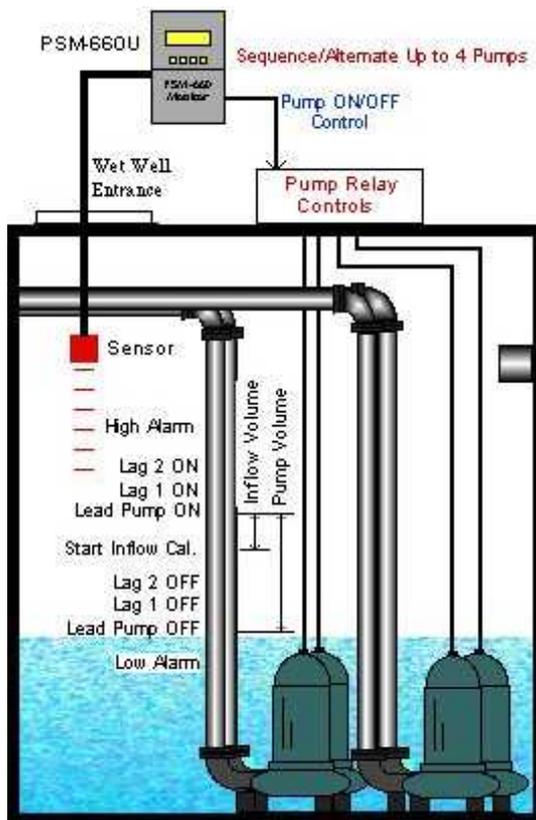
The final accuracy of the PSM-660U is equal to a precise 'drawn down' test performed on each pump cycle. The monitor may also be programmed to compensate for displaced liquid volume caused by piping and other hardware in the wet well.

The PSM-660U Pump Monitor will monitor up to 4 pumps with HIGH alarm or 3 pumps with 2 alarm outputs (HI and LOW).

**INSTALLATION**

The PSM-660U Monitor is simple to install. Mount/suspend the Sensor above the liquid level in the wet well and connect the sensor cable to the controller. The operator then enters the wet well dimensions, pump ON/OFF and INFLOW START elevations via the front panel keypad. Connect the relay output contacts to the pump motor control starters.

The PSM-660U will do the rest..... automatically.



Wet With 4 Pumps

<b>APPLICATIONS</b>	<b>FEATURES</b>	<b>OPTIONS</b>
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<ul style="list-style-type: none"> <li>• Controlling Pumps in Wet Well</li> <li>• Monitoring Volume Throughput</li> <li>• Billing Purposes</li> <li>• Replacing older flowmeters for improved accuracy</li> <li>• Flow Meter and Pump Controller in one package</li> </ul>	<ul style="list-style-type: none"> <li>• Pump Control and Flowmetering in one unit</li> <li>• Quick, Easy, Menu-Driven Programming</li> <li>• Sequence / Alternate / Rotate up to 4 pumps</li> <li>• 200 Day, 24 Hour Pump/Flow Summary</li> <li>• Time Stamped Detailed Pump Cycle Summary</li> <li>• Time Stamped EVENT List</li> <li>• Five Relay Outputs for Pump Control and Alarms</li> <li>• Waterproof NEMA 4X, IP65 Fiberglass Enclosure</li> <li>• No Special Software Required to Download Data to PC or by MODEM</li> <li>• RS-232 Serial Connections</li> <li>• Two (2) 4-20 mA. outputs - Pump Rate, Inflow Rate or Level</li> </ul>	<ul style="list-style-type: none"> <li>• PVC Sensor Mounting Bracket</li> <li>• Additional Sensor Cable (max. 1000 ft.)</li> <li>• Teflon Sensor</li> <li>• Heater/Thermostat for Enclosure</li> <li>• External MODEM</li> </ul>
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