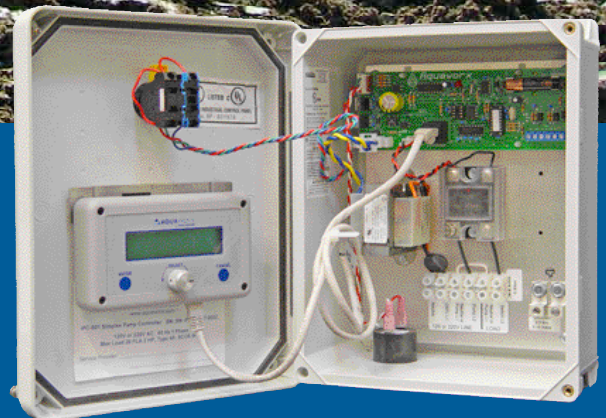




## AQUAWORX INTELLIGENT PUMP CONTROL PANELS



# AQUAWORX IPC PANELS

## Competitive Advantages

- Easy to install - Simplified wiring
- Easy to use - Unique user interface
- Easy to access - Data logging provides historical data
- Accurate timing - No stopwatch required
- Liquid level displayed for draw-downs - No tape measure required
- Veto level override function - Different timing at different loads
- MARC - Mountable and removable controller

## Aquaworx IPC Series Panels



## Pressure Transducer Technology Benefits

Currently, systems with floats, timers and motor contactors are used to control most timed septic pump systems. The Aquaworx Transducer Assembly connects to the panel with only a 3-wire cable, making it easier to wire and more cost effective than a float system. With most mechanical systems, floats trigger the timer and alarms at specific liquid levels. For each level, a function and float are required, and typically 3 to 5 floats are installed. Aquaworx incorporates a Transducer Assembly that continuously updates the liquid level to the MARC. A single transducer is all that is required for multiple functions and it provides all data the controller needs to perform system functions and more. The transducers durable construction protects it from corrosion and harsh environments, allowing for a long life.

## MARC Operating System Benefits

The Aquaworx Intelligent Pump Control (IPC) Panel is operated using the Mountable and Removable Controller (MARC). The MARC allows installers or service providers the option of removing the unit for use on multiple IPC Panels and protects each panel from being tampered with by unauthorized users. The MARC is much simpler to use and provides more flexibility than handheld Personal Digital Assistants (PDA).

## Data Logging Benefits

The IPC Panel series records each event with the date, time stamp, the liquid level at the time of the event and event type. The IPC Panel system will store up to 4,000 events. Events include: doses, power up, power down, manual run, and alarm events. The ability to use historical data is a distinct advantage when troubleshooting a system that has failed or has experienced an alarm. System data also provides the ability to calculate actual system flow quantities on a daily basis. The data allows the installer or maintenance provider to determine whether the system has been operated manually, how often the system alarm has sounded, and how long the system has been experiencing problems.

## Computer Timer Benefits

Using a microprocessor as the timing device provides reliable accuracy ( $\pm 1$  second). Many pump IPC Panels on the market today use Programmable Logic Controllers (PLC), which can be cumbersome to program when compared to the MARC and the Aquaworx IPC Panel.

## Solid-State Relay Technology Benefits

Solid-state relays are silent, as compared to motor contactors, which clunk each time they engage. Designed properly, a solid-state relay will have a greater life expectancy than a motor contactor. Aquaworx SSRs (Solid State Relays) turn on at the zero crossing point, providing a "soft start." This offers a comparatively smooth transition to power up the pump, extending it's life.

# Aquaworx IPC Panel Systems

## The Original Floatless Pump Control Technology

US Patent No. 6,632,072

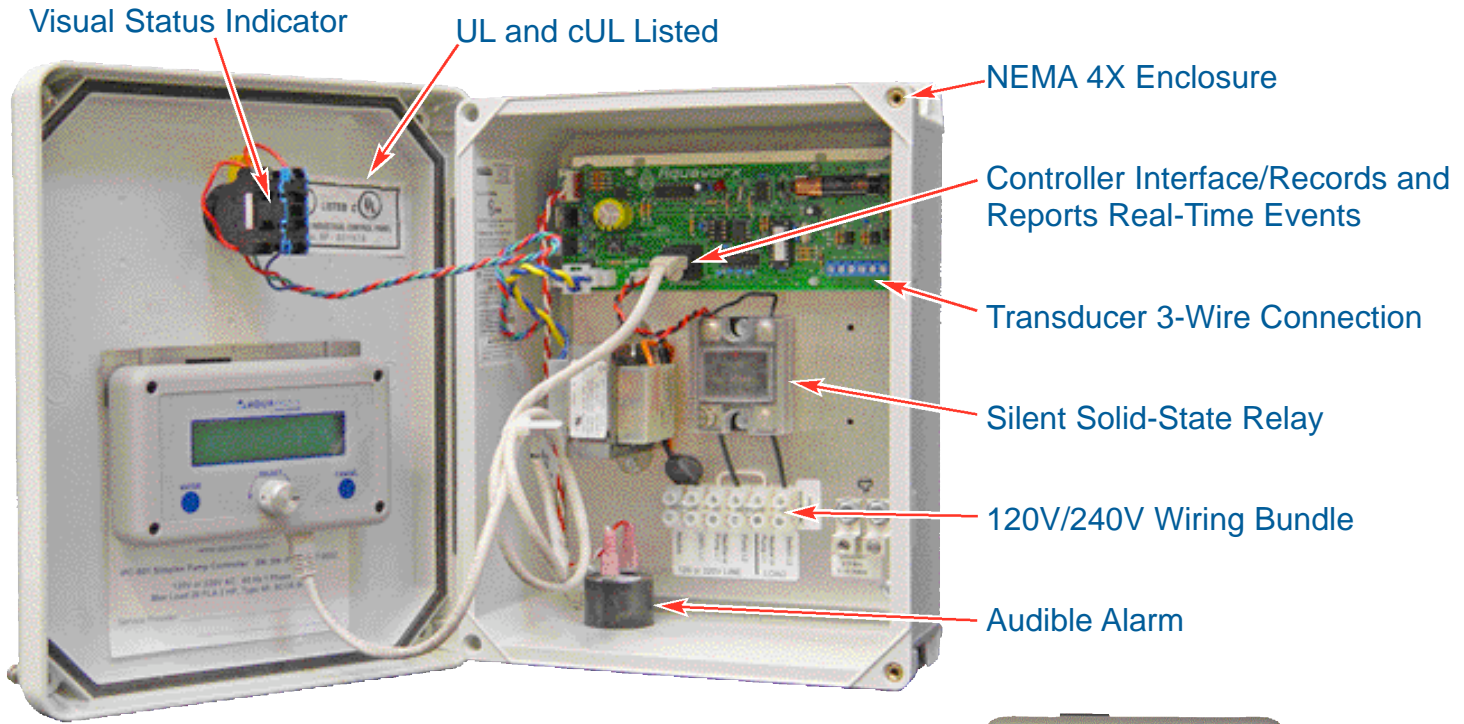
IPC Panel Standard Features	
<ul style="list-style-type: none"><li>• 115 VAC, 20 FLA, 1HP Max. or 220 VAC, 20 FLA, 2HP Max.</li></ul>	<ul style="list-style-type: none"><li>• Floatless pressure transducer in the pump chamber</li></ul>
<ul style="list-style-type: none"><li>• NEMA 4X enclosure</li></ul>	<ul style="list-style-type: none"><li>• Programmable on and off timer</li></ul>
<ul style="list-style-type: none"><li>• Manual / Off / Auto Operation</li></ul>	<ul style="list-style-type: none"><li>• Programmable start, stop and alarm levels</li></ul>
<ul style="list-style-type: none"><li>• Audible alarm w/ push to silence</li></ul>	<ul style="list-style-type: none"><li>• Date / time stamped event log</li></ul>
Standard Enhancements	
<ul style="list-style-type: none"><li>• Visual alarm</li></ul>	<ul style="list-style-type: none"><li>• Visual heartbeat indicator</li></ul>
<ul style="list-style-type: none"><li>• Automatic reset panel and alarm</li></ul>	<ul style="list-style-type: none"><li>• Real time clock w/ battery back-up</li></ul>
<ul style="list-style-type: none"><li>• UL/cUL listed</li></ul>	<ul style="list-style-type: none"><li>• Exclusive VETO feature</li></ul>
<ul style="list-style-type: none"><li>• Built-in dose counter and pump run time meter</li></ul>	<ul style="list-style-type: none"><li>• Can be wired to both 120V or 240V without any alterations</li></ul>
Options	
<ul style="list-style-type: none"><li>• Built-in MARC</li></ul>	
<ul style="list-style-type: none"><li>• External alarm input</li></ul>	
<ul style="list-style-type: none"><li>• Remote alarm panel</li></ul>	
<ul style="list-style-type: none"><li>• Intrinsically safe barrier (Class I, Division I)</li></ul>	

The Aquaworx IPC Panel provides an innovative approach to pump control. Designed specifically for the onsite industry, the IPC Panel leverages simple pressure transducer technology for the enhancement of pump system performance, and ease of installation. Relying on an embedded microprocessor in the pump controller and a floatless pressure transducer in the pump chamber, the IPC Panel monitors liquid levels, controls pumping time intervals, and logs events in real time. Using the MARC as the user interface, the Aquaworx IPC Panel offers a cost-effective solution with expanded capability.

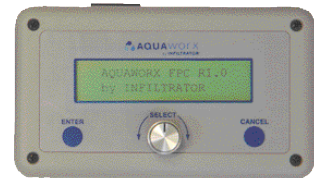
The data logging capabilities of the IPC Panel enable monitoring of multiple types of system events, enhancing operational assessment, troubleshooting, and maintenance of the system. The IPC Panel utilizes the MARC to collect system data and transfer it to PC-based applications using an SD card.

To find out how Aquaworx IPC Panels can work for you, just contact an Aquaworx sales associate at 1-877-278-2979.

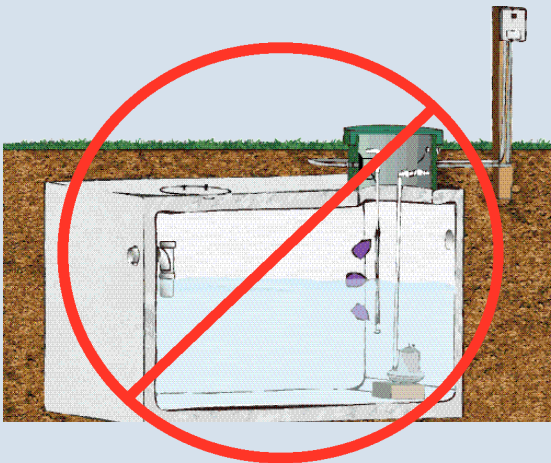
# Aquaworx IPC Panel



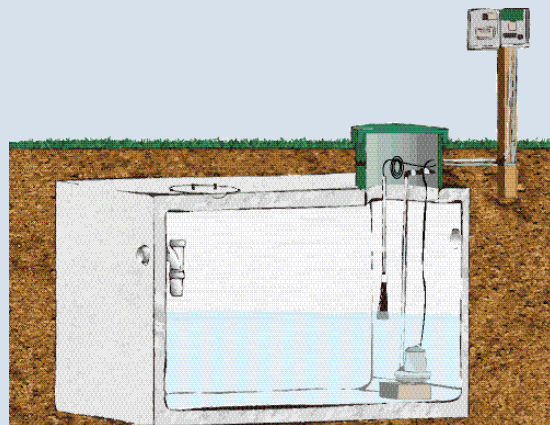
**Aquaworx MARC**  
*An alternative to the current PDA*



**Traditional Float Switches**



**New Floatless Pressure Transducer**



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Aquaworx by Infiltrator offers advanced solutions for the onsite wastewater industry.