

# Flygt MultiSmart™

THE NEXT GENERATION OF INTELLIGENT PUMP STATION CONTROL

**There is no easier way to manage your pump station. With the ability to handle up to six pumps, Flygt MultiSmart™ makes advanced pump control functionality available to everyone. Providing hundreds of features that not only maximize the efficiency of your pump station but also save you time and money by preventing clogging and nuisance call-outs, the Flygt MultiSmart is so simple to use that it will empower your operational staff with the kind of control previously only available from custom-programmed PLCs.**

## Control At Your Fingertips

Commissioning a new station or changing an existing station to maximize its efficiency or cost-effectiveness is simple thanks to the intuitive user interface. A setup wizard guides your staff through installation using defaults that have been thoughtfully designed so that everything will work exactly as you want. But remember, with MultiSmart any parameter can easily be changed to make your station work just the way you need. From something as simple as changing set-points to complex alternation schemes for large pump stations, MultiSmart empowers your operational staff with complete control.

## The Intelligent Pump Station

Wouldn't it be great if your pump station ran the most efficient pump instead of following a fixed alteration? What if it could clean the well out by removing floatables on a regular basis? How about providing you with the information needed to carry out preventative maintenance?

Well MultiSmart does all this and so much more. Multiple set-point profiles that allow remote switching or on specific date/times for a variety of specific operations such as spill management. Automatic changing of set points and limiting the maximum number of pumps to run when switching to a generator. With hundreds of features just like these, MultiSmart dramatically reduces the complexity and hassle of controlling pump stations.

## Lowering Your Costs, Saving Your Time

MultiSmart not only makes life simpler and gives you peace of mind, it saves you money. Nuisance call-outs are dramatically reduced thanks to built-in features like pump reversal that prevent clogging as well as alarms to prompt preventative maintenance. Pump energy efficiency is optimized by monitoring pump voltage and amperage to calculate real power consumption. By knowing



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the energy used by each pump it decreases pump station electrical consumption by leveraging the use of the most efficient pump. Control panel costs are reduced due to built-in functionality in the Flygt MultiSmart such as 3-phase current monitoring. The remote control feature reduces maintenance and frequency of site visits while the built-in local SCADA removes the added costs of HMI hardware and software. In fact, MultiSmart can even be purchased and used just as an RTU. This means lower deployment and commissioning costs for you.

## Future Proof Operation and Communication

Communication is key. MultiSmart's expandable I/O connects to any modern SCADA platform over either DNP3, Modbus or Aquacom. It includes a data logger for 45,000 events (10,000,000 direct to SD card).

With MultiSmart your investment is guaranteed. Firmware and feature upgrades are easily accessible via the web while the IEC 61131-3 compliant logic engine allows you to extend functionality further to create new features using your own custom logic.

## Flygt MultiSmart

Power supply	11-25 VDC
Ports	2xRS232, 2xRS485, 2x Ethernet, USB and SD port
Communication	DNP3 level 2, Modbus, AquaCom, WITS certified
Standard I/O	20 Digital inputs, 7 Digital outputs, 2 analog input, 1 analog output , 3 Voltage inputs
Motor protection I/O	9 current inputs, 3 insulation resistance testing, 5 digital outputs, 3 analog outputs
Data logging	Date, time and quality stamped >45,000 events
Unique functions	<ul style="list-style-type: none"> <li>• Set point profiles</li> <li>• Energy efficiency alternation</li> <li>• 3-phase voltage monitoring</li> <li>• Isolation testing</li> <li>• Sump cleaning</li> <li>• Pump cleaning</li> </ul>
IP class	<ul style="list-style-type: none"> <li>• Controller IP20 (NEMA 1) and Display IP65 (NEMA 4)</li> </ul>
Approvals	<ul style="list-style-type: none"> <li>• CE, UL, cUL</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>• Ambient Temperature 14F to 140F (-10°C to +60°C)</li> <li>• Storage Temperature -40F to 194F (-40°C to +90°C)</li> </ul>



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