Flygt Control Panels
An Introduction to the range

Engineered for life
ITT has a passion for innovation and the determination to offer effective solutions in the transport and treatment of water and wastewater.

ITT has over 100 years’ experience in fluid handling, motion and control, having developed the first electric submersible pump and now offering ozone and UV treatment in addition to aeration and filtration systems.

From design and engineering, to production and marketing, end user support, after-sales maintenance and rental services, the people of ITT display a synergy and professionalism that is second to none.

Whether your business is in construction, public utilities, industry, mining or other services, ITT Water & Wastewater will provide the right solution.

**Contacts**

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“IT is the vision of ITT WWW to provide our customers with low maintenance, efficient products, that minimise downtime and unnecessary site visits become a thing of the past.”
Flygt Control Panels

ITT Water and Wastewater has developed for the UK markets a comprehensive range of pump control panels from the simplest type with basic start and stop functions to highly sophisticated, intelligent Smart panels using state-of-the-art monitoring and control systems, developed by ITT.

Incorporating ITT pump controllers into our standard panel, we have utilised our wealth of knowledge with regards to pumps and fluid handling to produce an intelligent product that ensures your pump station is working to its optimum performance, monitoring, recording and alerting you to any potential issues.

With the advanced Smart Control panel we have built in variable frequency drives that are managed by our patented software PumpSmart. This will not only monitor your pump stations performance but accurately match the VFD to the hydraulic system so that you have improved efficiency and reduced energy consumption.

Here at ITT WWW, we have the experience and knowledge to supply you with the right monitoring and control equipment, to make your pump station function optimally with your pumps and for your applications.

Monitoring
By using ITT WWW pump controllers in your control panel, without any additional equipment, you can accurately and efficiently monitor the status of the pump station through pump status, number of pump starts, pump run time, pump capacity, operating trends, pump station inflow, outflow and overflow.

Control
Our Basic ‘Compact’ control panel has the start/stop function activated by floats or level switches.

Moving up to the Standard ‘iCompact’ control panel with a state-of-the-art ITT pump controller which can operate from level switches or an analogue level sensor. The pump controller offers a range of flexible control systems and is capable of providing logged data including; pump status, number of pump starts, pump run time and local alarms; up to highly sophisticated monitoring and control systems with advanced data logging to provide statistics and trend reports. In addition, all Standard ‘iCompact’ control panels can be configured to run regular cleaning cycles automatically.

Our Advanced ‘SmartCompact’ control panel is tailored to incorporate Variable Frequency Drives (VFD) and provides the complete solution for connection to your pump. PumpSmart software provides motor operating and control characteristics for driving wastewater pumps at optimum efficiency in wastewater applications.

SCADA Systems
For full remote control of your pump stations, it is essential that you are connected to a SCADA system. ITT WWW’s own SCADA system, ‘AquaView’, can reduce operation and maintenance costs by providing you with a complete picture of your system. It minimises the need for onsite supervision and gives operators an effective picture of the pump station’s function, performance and through trend analysis, enables condition assessment, without the costs associated with inspecting the pumps.

Communication
ITT WWW Control Panel Range* offers a range of options for communication links with a remote operator and/or SCADA system using industry standard protocols including WITS, MODBUS, COMLI over dedicated or dial-up phone line, Ethernet (IP), radio link or GSM/GPRS (mobile phone) systems.

* The Basic model provides only limited communications
Flygt Compact Control Panel

This is our basic model, with stop and start functions. As with all our panels it comes prewired for connection to a telemetry unit which will inform the operator if there is pump failure.

Features
- Basic operation with start and stop functions for up to 2 pumps in duty/standby or duty assist
- 10 variants to choose from including for use with ATEX certified pumps
- Single and Three Phase
- Front panel indication
- Automatic or manual control
- Audible alarm
- Prewired for energy saving optional accessory
- Prewired for connection to telemetry or building management system

Benefits
- Simple to install and operate. Local front panel indication of pump status
- Can be used with centrifugal or positive displacement pumps from any manufacturer

Flygt iCompact Control Panel

Our standard iCompact panel comes with the Flygt APPS21 pump controller, which provides intelligent monitoring and control for up to two pumps.

Features
- Takes the basic Compact and incorporates an ‘intelligent’ Flygt APP 521 pump controller that will monitor and control pump operations whilst tracking and recording the pumps operation and performance at all times
- 4 variants to choose from including for use with ATEX certified pumps
- Up to two pumps
- Three phase only
- LCD display
- Automatic or manual control
- Prewired for energy saving optional accessory
- Prewired for connection to telemetry or building management system

Benefits
- Simple to install and operate
- Can operate from level switches or analogue level inputs
- Provides a 24/7 ‘virtual engineer’ at site monitoring the pumps during operation
- Provides clear and defined information to the operator via a display in the front panel
- Can provide details of inflow, outflow, overflow, pump capacity, and sump level data - from one level input
- Can be used with centrifugal or positive displacement pumps from any manufacturer
Flygt SmartCompact Control Panel

The Flygt Advanced Control Panel incorporates two unique features that will reduce pump clogging and downtime of your pump. Within each panel we have included a Variable Frequency Drive and the patented PumpSmart software that is tailored for driving wastewater pumps, giving you the advantages associated with speed regulation, plus top pumping efficiency.

The panel comes preset with 90% of the parameters that you need to drive your pumps. Flygt PumpSmart can be used with centrifugal or positive displacement pumps from any manufacturer.

**Features**
- Takes the basic compact panel to a new dimension when using Variable Frequency Drives (VFD) by including Smart monitoring and control
- Provides a turnkey solution to our customers using our PumpSmart suite of software solutions
- 8 variants to choose from including for use with ATEX certified pumps
- One or Two pumps
- Three phase only
- LCD display
- Automatic or manual control
- Prewired for connection to telemetry or building management system

**Benefits**
- Simple to install and operate using our PumpSmart user interface
- Increased pump efficiency
- Energy savings – adjusts pump speed to system demand
- Improved system reliability – reduces stresses on electrical and hydraulic systems
- Monitors and displays flow
- Enhanced process control – matches flow head to system requirements
- Can be used with centrifugal or positive displacement pumps from any manufacturer

A full range of PumpSmart (VFD) control including:
- Pump running indication
- Pump speed indication
- Alarm log
- Pump running current
- Pump data
- Automatic pump cleaning cycle
- Pump capacity
For full details on PS 200 PumpSmart refer to separate documentation.
What can ITT Water & Wastewater do for you?

Integrated solutions for fluid handling are offered by ITT Water & Wastewater as a world leader in transport and treatment of wastewater. We provide a complete range of water, wastewater and drainage pumps, equipment for monitoring and control, units for primary and secondary biological treatment, products for filtration and disinfection, and related services. ITT Water & Wastewater, headquartered in Sweden, operates in some 140 countries across the world, with own plants in Europe, China and North and South America. The company is wholly owned by the ITT Corporation of White Plains, New York, supplier of advanced technology products and services.

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