waterbooster monitoring system

The **flow**monitor is a cloud based solution for remote monitoring of fault conditions on our water solutions products via email and/or text notification.

The unit is designed for a retrofit installation however it can be incorporated in to our control panels on booster set build prior to despatch.

The **flow**monitor will monitor the following:

- Individual pump fault
- Low water level fault
- System pressure (increase/decrease)

The **flow**monitor will help:

- Ensure that the water booster set is operating properly
- Detect problems early on
- Prevent costly repairs and downtime
- Prevent small problems from becoming big problems
- Make sure that it is not running when it is not needed. Saving you money on your energy bills
- Reduced risk of water damage
- Improve the reliability, efficiency, and safety of your water system

Features:

£1495 For Standard Monitoring Package
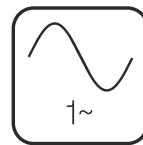
Remote Monitoring

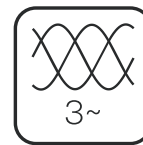**Email/Text Fault Notifications**
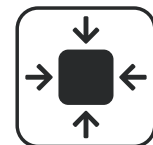
Retrofit Available

Complete Package:

- Remote Monitoring
- Compact enclosed design
- Simple installation
- 230V / 415 supply options
- Email or text fault notifications

1~ SINGLE PHASE

3~ THREE PHASE

COMPACT DESIGN

CLOUD BASED

flowmonitor retro

The **flow**monitor retro is a cloud based solution for remote monitoring of fault conditions on our water solutions products via email and/or text notification.

Components Supplied:

The **flow**monitor retro consists of the following component's:

There are 2 versions available:

Kit 1:

1 phase 230 volt AC comprising of:

- 1 no **flow**monitor monitoring device
- 1 no 230 volt AC to 24 volt DC power supply unit
- 1 no pressure transducer
- 1 no pressure transducer fittings Kit

Kit 2:

3 phase 415 volt AC comprising of:

- 1 no **flow**monitor pro monitoring device
- 1 no 415 volt AC to 24 volt DC power supply unit (2 wire)
- 1 no pressure transducer
- 1 no pressure transducer fittings Kit

🏷 **£1495 For Standard Monitoring Package**
Retro Installation POA

🛠 **Retrofit Installation For Any Booster Set**

👤⚙ **Bespoke Monitoring Packages Available**

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WATER SOLUTIONS

flowmonitor
base & prime

The **flow**monitor base & prime is a cloud based solution for remote monitoring of fault conditions on our water solutions products via email and/or text notification.

The **flow**monitor base and prime is a pre-installed solution fitted during manufacturing of the booster set.

Components Supplied:

There are 2 versions available:

Kit 1:

1 phase 230 volt AC comprising of:

- 1 no **flow**monitor monitoring device
- 1 no 230 volt AC to 24 volt DC power supply unit
- 1 no pressure transducer
- 1 no pressure transducer fittings kit

Kit 2:

3 phase 415 volt AC comprising of:

- 1 no **flow**monitor pro monitoring device
- 1 no 415 volt AC to 24 volt DC power supply unit (2 wire)
- 1 no pressure transducer

£1495 For Standard Monitoring Package
Installation Pre-Installed

Bespoke Monitoring Packages Available

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WATER SOLUTIONS

flowmonitor
pro & premium

This is an addition of a LoRaWAN gateway to unlock the features of the flowcon Intel Pro & Premium panels, divided tank Premium panel and all the **flow**detect range of sensors.

The **flow**monitor pro and premium is a pre-installed solution fitted during manufacturing of the booster set.

The **flow**con intel panel via LoRaWAN provides:

- Pump "ENABLED" status for all pumps (separately)
- Pump "RUNNING" status for all pumps (separately)
- Pump "FAULT" status for all pumps (separately)
- Soft start in operation / normal operating status (Setpoint 2 in operation status)
- Low water level status
- The ability to remotely override the low level input
- Sprinkler "ACTIVATED" status
- Setpoint 3 in operation status
- The ability to remotely alter the soft start timer
- The ability to remotely shut down the booster or individual pumps

£1495 For Standard Monitoring Package
Installation Pre-Installed

Bespoke Monitoring Packages Available

Monitoring System:

The image shows the upgraded user web interface for the **flow**monitor pro and premium.

FLOWTECH WATER SOLUTIONS

UNIT 1, LOCK FLIGHT BUILDINGS

WHEATLEA INDUSTRIAL ESTATE

WIGAN WN3 6XP

Phone: 0333 200 1756

Web: www.flowtech.org.uk

Mail: info@flowtech.org.uk

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WATER SOLUTIONS

How does it work?

The existing volt free dry contact outputs from the 1 pump, 2 pump or 3 pump water booster set pumps are connected to the **flow**monitor and duplicated which leaves a set of volt free contacts available for a client BMS or local alarm sounder.

The second set of status connections are monitored, and the data transmitted by cellular SIM to our cloud application.

flowmonitor retro, base and prime:

1. Pump 1 Fault
2. Pump 2 Fault
3. Pump 3 Fault
4. Low Water Level Fault
5. Booster output pressure transducer (0-10bar and 0-10vdc)

flowmonitor pro and premium:

- Pump "ENABLED" status for all pumps (separately)
- Pump "RUNNING" status for all pumps (separately)
- Pump "FAULT" status for all pumps (separately)
- Soft start in operation / normal operating status (Setpoint 2 in operation status)
- Low water level status
- The ability to remotely override the low level input
- Sprinkler "ACTIVATED" status
- Setpoint 3 in operation status
- The ability to remotely alter the soft start timer
- The ability to remotely shut down the booster or individual pumps

Who receives notification of the fault?

Alert notifications can be sent to Facility Managers, operators and owners of the booster set by email and/or text or can be monitored and site attendance when required by Flowtech Water Solutions through one of our Service and Maintenance packages. Please contact our Service Division **flow**care on 0333 200 1813.

These notifications can be sent to individuals or multiple people and can be set differently for varying times of the day i.e caretaker of the premises between 8-00am and 5-00pm.

On activation of a fault operators can interrogate the unit remotely via the online web page to check the fault condition and output pressure and to access how critical an issue is before attending site.

The low water input can also be remotely overridden to check operation. Where **flow**monitor units are installed at multiple sites locations will be highlighted once logged on the online portal.

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What are the ongoing costs?

When you purchase a **flow**monitor system the first year subscription is included in the package price. (Max 200 Text Messages Per Year, Extra Costs will be incurred if above)

Second year £250 yearly subscription charge for continued monitoring service. This charge will commence after the first year of monitoring.

The additional pressure transducer supplied with the **flow**monitor kit and installed in the discharge pipework displays the actual current output pressure of the booster set in bar units. Threshold values can be set to provide an alert should the pressure move outside the desired range therefore helping to alleviate the incorrect adjustment of the delivery pressure outside of the pumps performance curve or to detect wear and tear of the pump resulting in poor performance and efficiency.

Example: If the design duty of the booster set is 6.0bar the lower limit can be set at 4.5bar and the upper limit can be set at 7.5bar, out of these parameters can cause pressure issues for the system or pump damage so should these pressures be reached an alert will be registered.

Data Subscription:

Contact details such as an email address and mobile phone number for each nominated user are programmed into the device via a web configuration page. If a pump fault is detected an email, text or both are sent out to those people associated with that input. It is possible to configure the alerts so that users may only be contacted at set times of day or that only specific alerts are sent to one user and not others.

Cellular Network:

Any network provider: Our "anywhere" SIM automatically selects the strongest network signal.

Monitoring System:

The image shows the user web interface for the retro, base and prime. When a fault is registered the associated display icon changes from green to red and the word FAULT is displayed. When the fault is cleared the display automatically resets to green and an alert "CLEARED" message is sent by email and/or text.

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