

# Flowtronik

Automatic Urinal Flushing System with ESS Technology



# Automatic Urinal Flushing System with Concealed Sensor

**burda Flowtronik:** contactless, clean, economic and vandalism proof

Conventional automatic urinal flushing systems with optic sensors have up to now operated in a contactless, clean and economic way but they have not been vandalism proof as their sensors were mounted onto the wall. The sensors have not been protected against environmental impacts or vandalism. Faulty operation caused by wilfully damaged or dirty sensors have been the result. Now that is over, owing to the **burda Flowtronik** and its innovating concealed mounted sensor technology.



## No Optical Sensor

There is no sensor on view from the outside. The possibility of vandalism is excluded. Something invisible cannot be destroyed!

## Concealed Sensor

Sensor and solenoid valve are concealed behind the ceramic. Here the technical parts are securely protected against any unauthorized access, but easily accessible for the service people.

## Preassembled Units

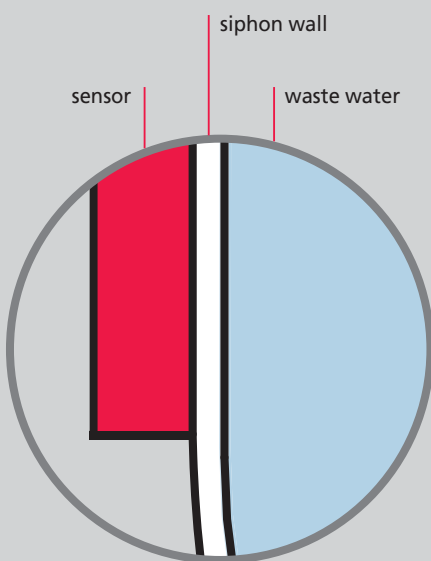
Mounting does not require much work as the FLOWTRONIK automatic urinal flushing systems come as preassembled units. Users can chose between various proven installation systems for dry construction or massive walls.

## Flowtronic with ESS operates like a Motion Detector

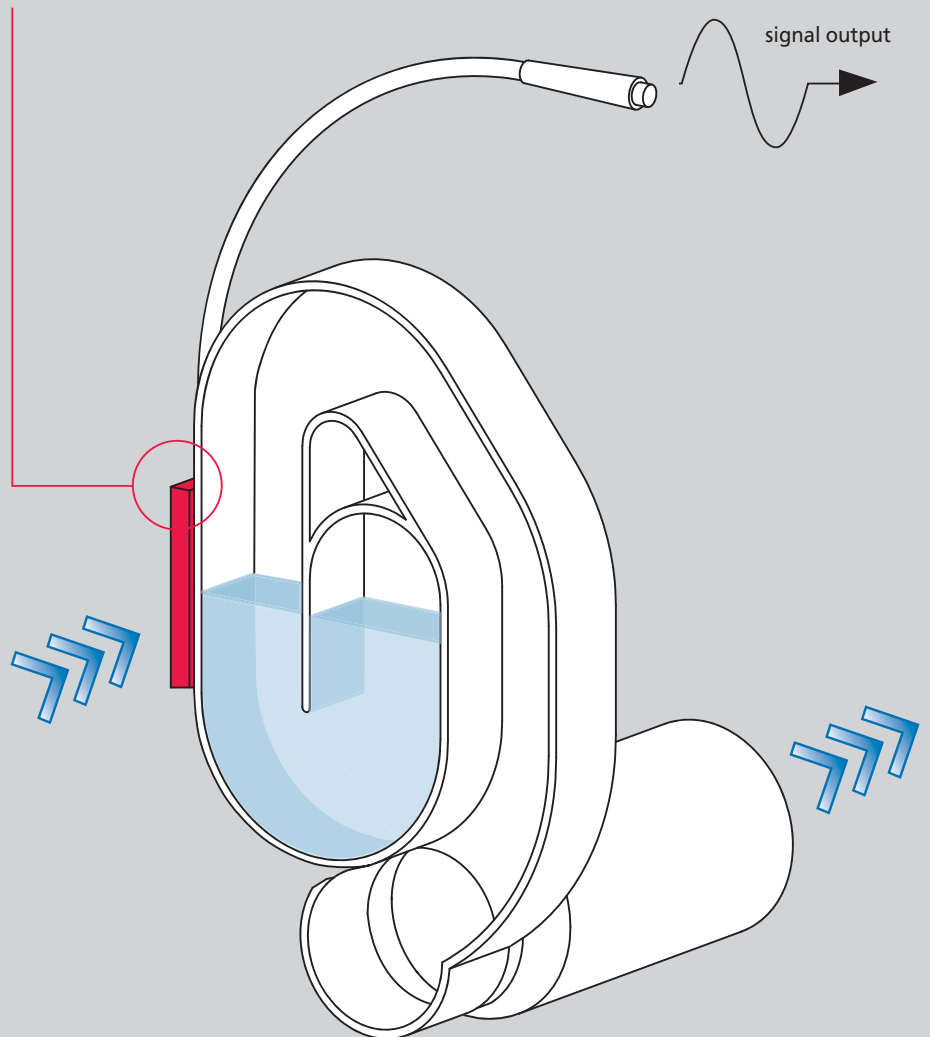
The External Siphon Sensor (ESS) operates without electrodes and without wastewater contact.

### No Waste Water Contact

The External Siphon Sensor, ESS in short, is placed to the exterior siphon wall side. This system does not require any measuring electrodes sealed into the siphon wall from the outside or otherwise conducted to the wastewater.



No penetration of the wall

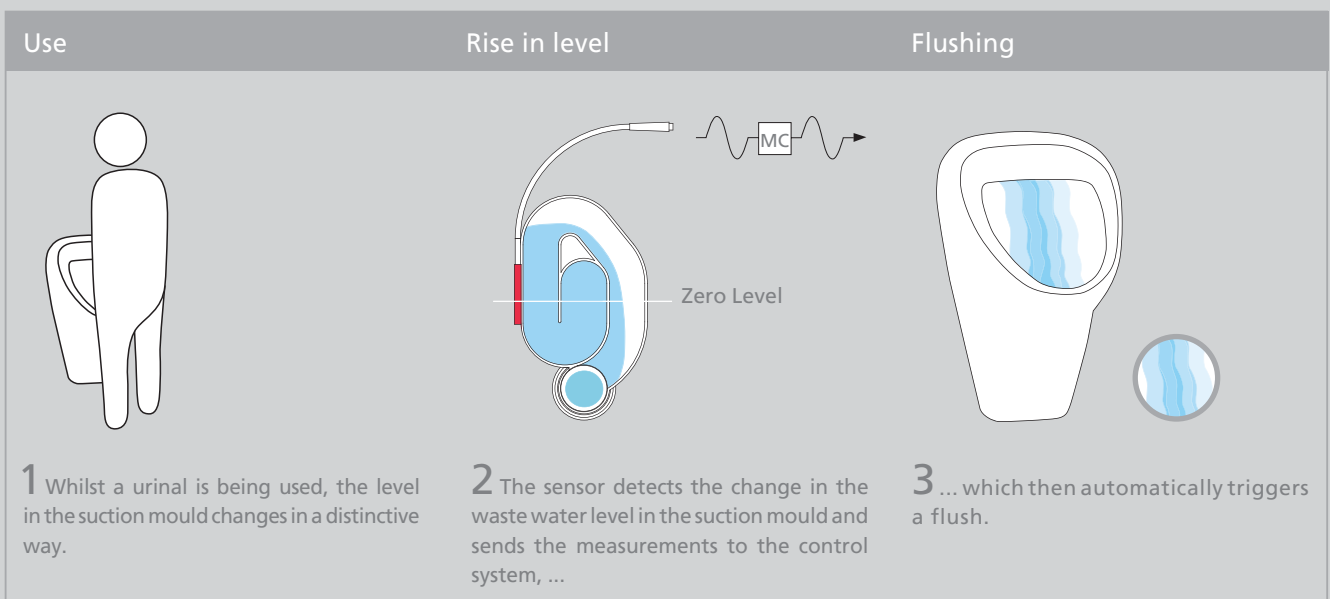
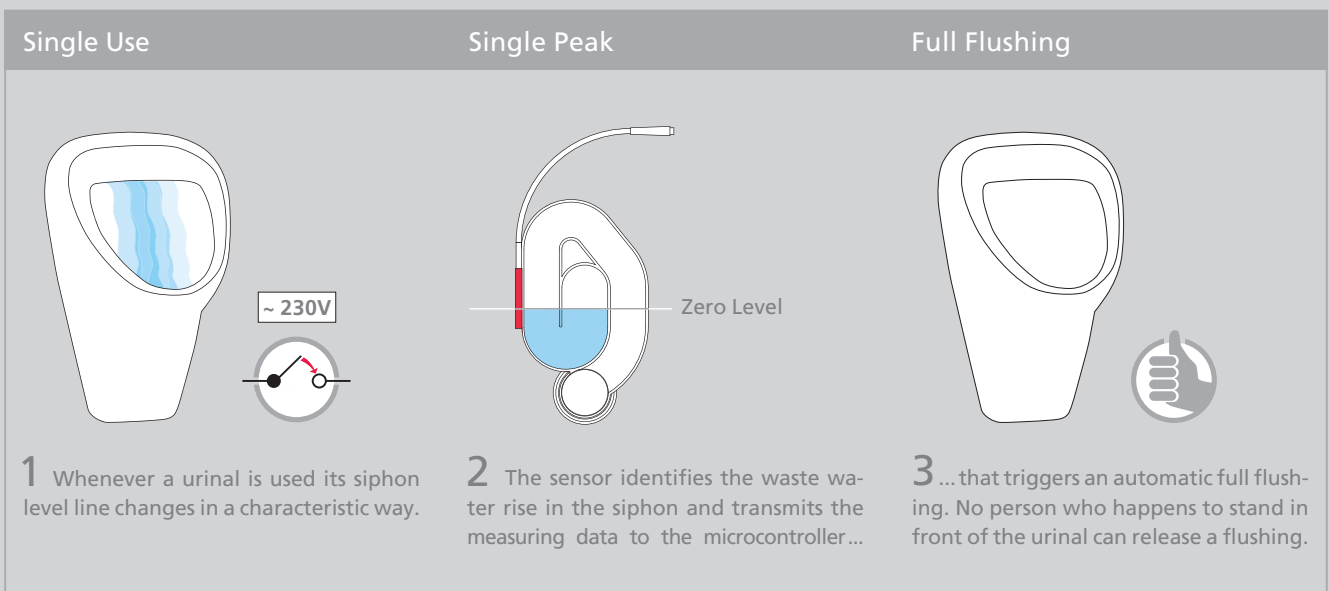


Sectional view of a urinal suction mould with external sensor

# Reliable Reaction whenever the Urinal is used

Low water consumption by distinguishing single and multi-use

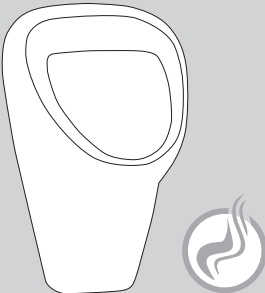
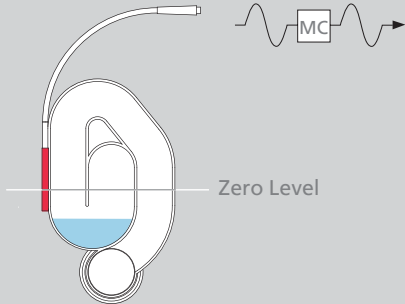
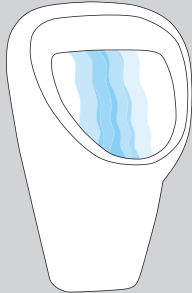
With the first commissioning or following a power failure the Flowtronik will start its autonomous operation and react reliably to level changes in the siphon. Each level difference is transmitted to the microcontroller which interprets the measured data, identifies various operating scenarios and triggers a flushing action according to user frequency. It saves water.

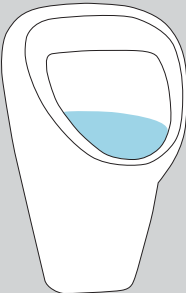
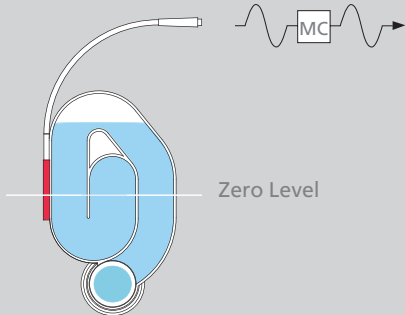



# Reliability in case of Disturbed Sewerage

Control of the odour disconnecting trap and drains for an improved operational security

The Flowtronik continuously controls the level line in the siphon and identifies not only regular user scenarios in a reliable way but also critical disturbances in the sewerage. This leads to an improved operational security.

Odour disconnection Control	Minimum level	Compensating Flushing
		
<p><b>1</b> When a urinal has not been used for some time the odour disconnection in the siphon can go dry and the wastewater odour may rise from the channel.</p>	<p><b>2</b> With desiccation, the siphon level sinks. When a predefined minimum level is reached...</p>	<p><b>3</b> ...the microcontroller will automatically trigger a flushing which will prevent siphon desiccation and odour nuisance.</p>

Drain Control	Maximum Level	Flush Stop
		
<p><b>1</b> There will be no risk of overflow when the urinal is clogged.</p>	<p><b>2</b> In a clogged drain, water is permanently kept in the siphon ...</p>	<p><b>3</b> ...and in this case the microcontroller triggers an automatic flush stop. No flushing will be allowed unless the clogging is removed.</p>

## The most important Flowtronik Advantages at a glance

Vandalism proof	The sensor is concealed behind the ceramic und therefore protected against any unauthorized access or environmental impacts.
Easy to mount	The automatic urinal flushing system comes as preassembled unit. Users choose between various installation systems.
Easy maintenance	Sensor and solenoid valve are easily accessible behind the ceramics.
Sensor without contact to sewage	No contact to sewage; any faulty operation caused by leaky, corroding or calcified measuring electrodes is basically impossible.
Autonomous operation	The microcontroller is factory-programmed. When energized, the system will automatically start operating.
Energy buffer store	If the power fails, thanks to its internal buffer store the control system always has the necessary energy reserves to close the solenoid valve.
Low operating costs	The Flowtronik works largely independently, takes only a minimum of care and maintenance and only seldom requires the intervention of the service staff.
Odour Trap Control	When the urinal is not used the FLOWTRONIK will prevent desiccation of the odour trap by filling the siphon if necessary.
Overflow Protection	No flushing is allowed before removal of the clogging.
Low water consumption	Excessive water consumption is avoided because there will be no flushing unless something has „run down“ .

# Installation Systems for different Situations



Kombiset



BS+ Plus



Santro

## Easy to mount Technique

Mounting a Flowtronik urinal control is very easy because the systems come as preassembled units. The installer can choose between three different installation systems for various installation situations:

Wet construction (pre-wall)

Dry construction (pre-wall / studded wall)

Dry construction (with factory planking)



## Kombiset

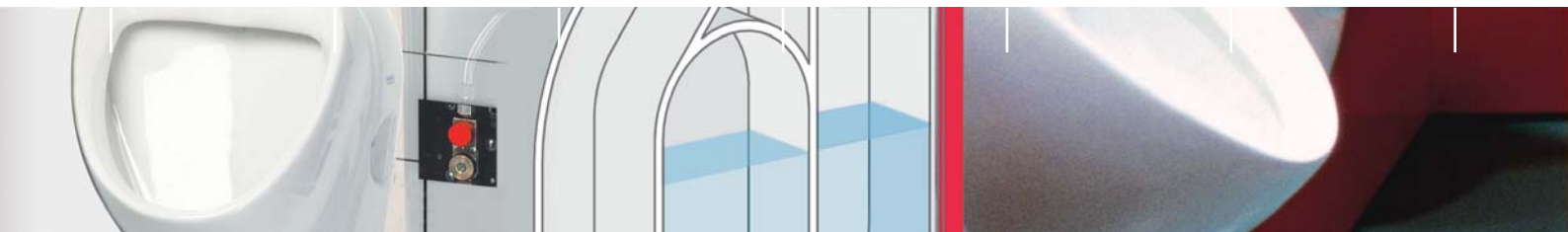
The Kombiset is the tried and tested installation system for traditional bricking up. Besides the urinal element, this system also includes WC, washstand and bidet elements.

## BS+ Plus

BS+ Plus is the universally applicable installation system for the dry construction method that is usual today, whereby the front wall element is planked with plasterboard after installation by a drywaller.

## Santro

Santro is a unique installation system to this day with factory-fitted dry construction planking. All the elements on this installation system can therefore be tiled straight after installation and are thus suited above all to the "quick and clean building site".



burda

Herbert Burda GmbH  
Krefelder Straße 87  
40549 Düsseldorf

tel. +49 211 95001-0  
fax. +49 211 500575

[www.burda-online.com](http://www.burda-online.com)