



**STEBATEC**<sup>®</sup>  
driven by water



## **Autarkic clamp-on flow measurement** *Non-intrusive measurement of flow rate and temperature*

Nowadays, measurement data are indispensable for system operators. With the clamp-on from FLEXIM, you can measure flow, current and temperature precisely and drift-free without intervention on the pipeline directly in the shaft or soil. This saves time and money, because the biggest cost factor in setting up a measuring point is the installation effort. The clamp-on measures with the highest accuracy even

at the lowest flow speeds from 0.01 m/s, which is essentially different from MIDs (from 0.3 m/s). Using the self-sufficient version with solar module, you can even measure completely independent of the mains. The measurement data is transmitted to the external periphery in real time via mobile radio. With its simple and non-intrusive commissioning, the clamp-on is the ideal measuring instrument.



### **Clever & simple mounting**

Non-invasive mounting thanks to clamp-on sensors on the tube



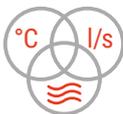
### **Low installation costs**

Installation directly in the soil or in the pit



### **Optionally as autarkic measuring point**

The clamp-on measurement can also be operated completely autarkically



### **Multiple parameters**

Measure flow, stream and temperature with one device



### **Waterproof IP68**

Permanently resistant in all installation situations



### **Reliable customer service**

A fast and personal service is close to our heart

## **STEBATEC Trinkwasser AG**

Buchmattstrasse 13  CH-3400 Burgdorf  
+41 34 420 24 24  [info@stebatec.ch](mailto:info@stebatec.ch)  
[stebatec-trinkwasser.ch](http://stebatec-trinkwasser.ch)



## Measuring & monitoring with a device that is mounted non-intrusively

In addition to the flow rate, the clamp-on can also measure the water temperature, with the advantage over other systems that any bacterial growth can be detected at higher temperatures. Thanks to the highly precise measurement of the flow speed, from as little as 0.01 m/s, even the smallest amounts of water are recorded and with corresponding empirical values as a comparison, the system also supports the customer in finding leaks.

### Technical specifications

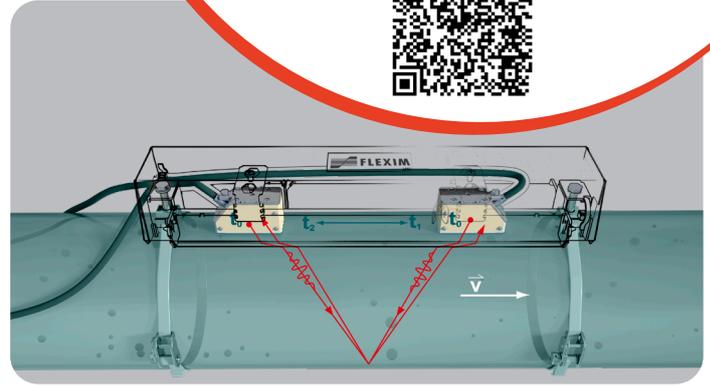
Type	F721 WB	F532 WD
Number of measuring paths	1 or 2	1
Range of pipe sizes	50 ... 6500 mm	25 ... 2000 mm
Measurement uncertainty volume flow	±1 % from measured value ±0.005 m/s	
Power supply	100 ... 230 VAC 20 ... 32 VDC 11 ... 16 VDC	90 ... 250 VAC 11 ... 32 VDC
Protection class sensors	IP68 or IP67	



### Properties Clamp-on-Autarkic

- 100% autarkic measuring point with full performance range
- Energy supply with solar panel
- Security of supply through battery operation (if required)
- Low installation costs

## Discover the clamp-on



Type	F721 WB	F532 WD
Temperature range sensors	-40 °C ... 130 °C	
Outputs	4 ... 20 mA active / passive 4 ... 20 mA HART active / passive Impulse / Binary	
Digital communication	Modbus RTU/TCP BACnet MSTP/IP M-Bus, Profibus PA Foundation Fieldbus	Modbus RTU/TCP BACnet MSTP/IP M-Bus
Interfaces	To process control system via 3G/4G antenna	

### Autarkic - The completely grid-independent measuring point

When setting up new flow measuring points in a water supply network, it is often not the measuring instrument that is the main cost factor, but rather the installation effort (supply interruption, pipe work, power supply, etc.) or that structures and pipelines are distant or difficult to access. However, there is no interference with sensitive nature.

Therefore, the measuring point can also be operated 100% self-sufficiently by means of a solar panel. The solar panel reliably supplies the measuring point with energy and the integrated antenna transmits the data via mobile radio in real time.

- High quality and durable materials
- Non-intrusive flow and temperature measurement with high accuracy
- Easy retrofitting to existing water networks without interruption

**Do you have a question about the product?**

I am glad to be there for you.

**Dominic Bühler**

+41 34 420 24 24 [dominic.buehler@stebatec.ch](mailto:dominic.buehler@stebatec.ch)



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