



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.



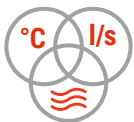
Clever & simple mounting

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



Waterproof IP68

Permanently resistant in all installation situations



Multiple parameters

Measure flow, stream and temperature with one device



Optionally as autarkic measuring point

The clamp-on measurement can also be operated completely autarkically



Low installation costs

Installation directly in the soil or in the pit



Reliable customer service

A fast and personal service is close to our heart

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	$\pm 1\%$ from measured value ± 0.005 m/s	
Power supply	100 ... 230V AC 20 ... 32V DC 11 ... 16V DC	90 ... 250V AC 11 ... 32V DC
Protection class sensors	IP68 or IP67	



Properties Clamp-on-Autarkic

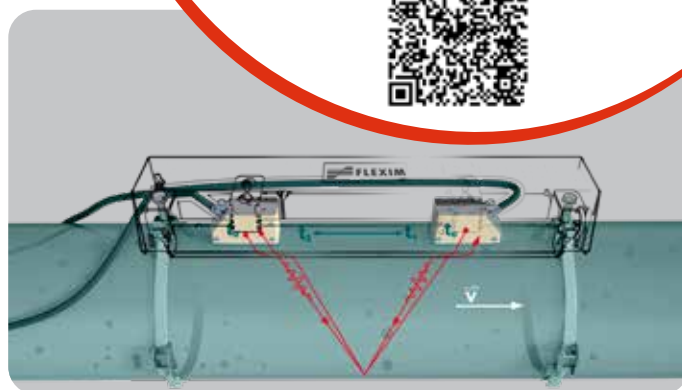
- 100% autarkic measuring point with full performance range
- Energy supply with solar panel
- Security of supply through battery operation (if required)
- Low installation costs
- High quality and durable materials
- Non-intrusive flow and temperature measurement with high accuracy
- Easy retrofitting to existing water networks without interruption

Do you have a question about the product?

We are glad to be there for you.

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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.