



## Heavy duty portable ultrasonic water flow meter **FLUXUS® F401**

Long-term operation, robust design, accurate measurements



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- Several months battery-powered operation time
- Extremely robust design
- Ideal for long field studies
- Corrosion-resistant stainless steel cable sheathing
- Permanent coupling pads
- IP68 transducers



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when measuring matters



<b>Product variant:</b>	<b>FLUXUS® F401</b>
Pipe diameter range:	1.6 ... 185 inch
Pipe material:	All
Media:	Water / Wastewater
Battery lifetime:	Several months (depending on measurement interval)
Solid or gas content:	up to 6 % in volume
Flow velocity range:	0.03 to 82 ft/s
Accuracy:	±2% of reading ± 0.03 ft/s
Repeatability:	0.25 % of reading ± 0.03 ft/s
Transducer cable length:	19 ft
Transducer protection degree:	IP68
Transducer coupling material:	Pads (for long-term installations) and gel (for short-term installations)
Transmitter protection degree:	IP67 (housing closed)
Number of flow measuring channels:	1
Communication options:	RS232
Data logger:	> 100,000 values
Outputs:	1x Current, 1x Binary



## Several months operation time

The FLUXUS® F401 is the ideal flow meter for long-term measurement campaigns in the field. Depending on the programmed measurement interval the FLUXUS® F401 can operate autonomously for several months. This makes it suitable for leak detection studies and hydraulic studies, where regular measurements are needed over a longer period of time, but it is not practical to install a permanent ultrasonic flow meter.

## No signal deterioration

As the FLUXUS® F401 is designed for long-term field operation, it is supplied with permanent coupling pads in addition to coupling gel. For short-term measurements coupling gel is suitable, but not for semi-permanent field installations. In the field extreme heat or periodic submersion of the transducers can lead to depletion of the coupling gel, which results in signal deterioration or dropout. The permanent coupling pads of the FLUXUS® F401 guarantee excellent acoustic coupling no matter what the field conditions are.

## Extremely robust design

All parts of the FLUXUS® F401 have been designed to ensure utmost robustness for regular heavy duty use in tough conditions. The stainless steel instead sheathing of the transducer cable ends protects them against strong bending or cuts and ensures tangle-free operation. The 19 foot cable length of the IP68 transducers allows for the installation of the transducers even in deep manholes, allowing the transmitter to be conveniently placed in the upper part of the manhole. The transmitter is housed in a robust case and has IP67 protection.

## Accurate measurements

The FLUXUS® F401 is installed without process interruption and the installation can be completed within a few minutes. Thereafter, it will deliver accurate, drift-free and repeatable measurements. Due to its excellent low flow capability (down to 0.01 m/s), the FLUXUS® F401 is well suited for monitoring drinking water networks where low flow velocities are common. The strong signal output and the noise suppression technology make it possible to use the FLUXUS® F401 on challenging materials and very large pipes. Contact your local FLEXIM support office for more details.

