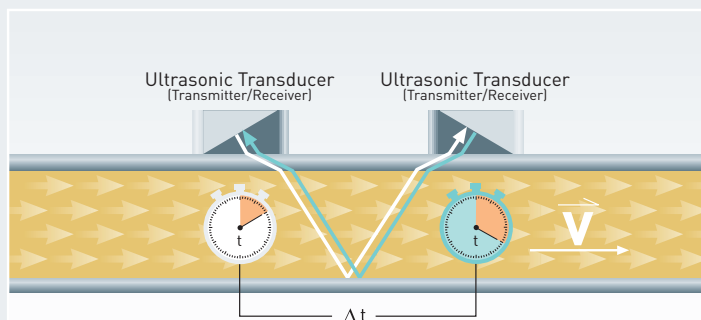


Technical data



Measuring principle

The Transit Time Difference Correlation Principle makes use of the fact that the time-of-flight of an ultrasonic signal is affected by the flow velocity of the carrier medium. Like a swimmer working his way across a flowing river, an ultrasonic signal travels slower upstream than downstream.

Our instrument works according to this transit-time principle: an ultrasonic pulse is sent downstream through the medium, another pulse is sent upstream. By measuring the transit time difference, the average flow velocity can be determined. The volume flow can then be calculated out of the flow velocity and the pipe parameters.

FLUXUS® F601 is available in three versions: Standard, Energy, and Multifunctional. These versions differ in their equipment with signal inputs and outputs (see table below).

The transducers need to be selected according to the application. Transducers are available for a diameter range from DN 6 to DN 6500 and for temperatures from $-40\text{ }^{\circ}\text{C}$ to $400\text{ }^{\circ}\text{C}$.

Our application engineers will be happy to assist you for a precise adaptation of the measuring system to your requirements.

General technical specifications

Transmitter:	F601
Quantities of measurement:	volume flow, mass flow, energy flow (optional), flow velocity
Operating time with battery:	>14 h
Operating temperature:	$-10\text{ }^{\circ}\text{C}$... $60\text{ }^{\circ}\text{C}$
Flow channels:	2
Degree of protection:	IP65 acc. to EN60529
Flow velocity:	(0.01 ... 25) m/s
Resolution:	0.025 cm/s
Repeatability:	0.15 % of reading \pm 0.01 m/s
Accuracy*	
– with 7-point wet calibration:	1.2 % of reading \pm 0.01 m/s
– with field calibration:	0.5 % of reading \pm 0.01 m/s**
Inputs and outputs:	Standard: Outputs: 2 x current, 2 x binary Energy: Inputs: 2 x Pt 100/Pt1000; Outputs: 2 x current, 2 x binary Multifunctional: Inputs: 2 x Pt 100/Pt1000, 2 x current; Outputs: 4 x current, 2 x binary

* under reference conditions and with $v > 0.15\text{ m/s}$

** if reference uncertainty better than 0.2 %

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... and complete



The complete measuring system and the required accessories fit into a sturdy protective transport case. The case's dimensions are in accordance with airline requirements for carry-on luggage.

