



Flowmax® 400i is an ultrasonic flowmeter for precise, non-contact measurement of conductive and non-conductive liquids. It operates without moving parts, ensuring wear-free performance and a low-dead-space flow path.

All wetted components are made of PFA, suitable for DI water and process liquids as well as aggressive or toxic acids and alkalis.

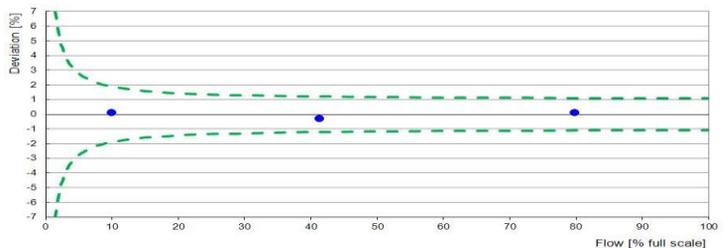
The Flowmax® 400i provides high measurement accuracy, repeatability, and response times in the millisecond range. It features integrated empty-pipe detection and an optional PID control function. A preset batch counter and control outputs for external pump or valve actuation are included as standard. The device is particularly suitable for operation with diaphragm and peristaltic pumps.

Housing					
Material	Measuring tube	PFA			
	Electronic	PP			
	Union nut	PVDF or PFA			
optional: NPT - adapter (Flare to NPT), PFA					
Nominal diameter [DN]		7	10	15	20
Measuring range [l/min]		0.03/0.09 ... 6	0.3 ... 24	0.9 ... 60	1.2 ... 120
Process connection: Flare or optional NPT		3/8"	1/2"	3/4"	1"
Dimensions L/W/H	[mm]	218 / 120 / 79	219.5 / 120 / 79	227 / 120 / 82	251 / 120 / 91.5
	[inch]	8.6 / 4.7 / 3.1	8.6 / 4.7/3.1	8.9 / 4.7 / 3.2	9.9 / 4.7 / 3.6
Weight [kg]		1.1	1.1	1.1	1.3
Protection class		IP65			
Medium temperature [°C]		0 ... 60			
Nominal pressure [PN]		6			

Electronics	
Power supply	24VDC, approx. 3.6W
Electrical connection	Plug on housing: 5- or 8-pin, alternatively 5 m 10-core cable with Teflon sheath
Input ¹	1 digital input, usable for dosing start
Outputs ¹	2 digital outputs, configurable as pulse or alarm, 1 analog output, configurable as current output 0/4–20 mA, RS485 - data interface
Max. error of measurement	± 2% o.r. ± 0.15% f.s. (o.r. = of reading; f.s. = full scale) option with calibration ± 1% o.r. ± 0.15% f.s. Reference conditions (VDI/VDE 2642)
Repeatability	≤ 0,5%

¹The variety of input/output options depends on the connector selection.

Additionally selectable options
Calibration (3 or 8 points) including certificate
Output of the speed of sound
Communication via Modbus



Example: Measuring points of a calibrated Flowmax in error graph according definitions

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Technical subjects to be changed!