



Flowmax® 400i-EX is a contactless ultrasonic flowmeter for conductive and non-conductive liquids. Its low-dead-space channel geometry and lack of moving parts make it wear-free and hygienic. All media-contacting components are made of PFA.

Flowmax® is suitable from DI water to alkaline, toxic and aggressive media as well as solvents, including in explosion-hazardous areas. The device stands out for high measurement accuracy, reproducibility, and integrated empty-volume monitoring.

The measured volumetric flow rate is available at the outlets with milliseconds response time. By default Flowmax® has a preset quantity counter; an external start signal is optional. A control signal for activating pumps or valve control is also available.

SI 005 E/FM400iEX/02..26

Housing				
Material	Measuring tube	PFA		
	Electronics	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]	209 / 170 / 73	211 / 173 / 73	215 / 187 / 76
	[inch]	8.2 / 6.7 / 2.9	8.3 / 6.8 / 2.9	8.5 / 7.4 / 3.0
Weight [kg]	1.1	1.1	1.1	1.3
Protection class	IP65			
Medium temperature [°C]	0 ... 50			
Nominal pressure [PN]	6			

Electronics	
Power supply	24VDC, approx. 3.6W
Electrical connection	8-core cable
Input	1 digital input, usable for dosing start
Outputs	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%

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

The EX-labelling is	
zone 1:	zone 2:
IECEx: Ex mb IIC T6 Gb	
ATEX: II 2G Ex mb IIC T6 Gb	ATEX: II 3G Ex mc IIC T6 Gc

All flow meter parameters are freely configurable by using FlowCon. It can be ordered separately and does not have an EX-approval and may only be used outside a hazardous area.

Flowmax® 400i-EX is a device within the scope of IECEx and directive 2014/34/EU. When used as equipment of group II, category 2G for zone 1, explosive gas atmospheres, as well as under consideration of the intended use, this flowmeter does not pose any ignition hazard of its own. The ignition hazard analysis was carried out in accordance with the IECEx and ATEX-Directive 2014/34/EU.

