



Flowmax® 42i-EX is a contactless ultrasonic flowmeter for conductive and non-conductive liquids. With its low-dead-space channel geometry and no moving parts, it is wear-free and particularly hygienic. All media-contacting components are made of PP, allowing safe measurement of DI water, alkaline, toxic and aggressive media as well as solvents in explosion-hazardous areas.

The device stands out for high measurement accuracy, reproducibility and integrated empty-volume monitoring. An optional PID control is available. The response time is in the millisecond range.

By default, Flowmax® includes a preset quantity counter; an external start signal is optional. A control output for pumps or valves is integrated. Thus, Flowmax® 42i-EX is ideally suited for use with piston-diaphragm and peristaltic pumps.

SI 006 E/FM42iEX/02.26

Housing					
Material	PP				
Nominal diameter	3mm	5mm	7mm	10mm	15mm
Measuring range [l/min]	0.012 ... 1.5	0.024 ... 3	0.09 ... 6	0.3 ... 24	0.9 ... 60
Process connection:					
Inch internal thread	G1/2		G3/4	G1	
Clamp according to DIN 11864-4 BKS Form A	DN10		DN10	DN15	
Tri Clamp DIN 32676	D25 NW8		D25 NW8	D34 DN15	
Dimensions of device with internal thread L/W/H [mm]	168 / 132 / 43		171 / 132 / 43	176 / 132 / 48	
	[inch]		6.6 / 5.8 / 2	6.7 / 5.8 / 2.2	
Weight [kg]	0.89		0.89	1.03	
Protection class	IP65				
Medium temperature [°C]	0 ... 50				
Nominal pressure [PN]	10				

Electronics	
Power supply	24VDC, approx. 3.6W
Electrical connection	8 pin plug or 8 core cable
Display	without display, electronics encapsulated, without cover
Input	1 digital input, usable for dosing start
Outputs	2 digital outputs, configurable as pulse output or empty pipe alarm, 1 analog output, configurable as current output 0/4-20mA, RS485-data interface.
Max. error of measurement	± 2% o.r. ± 0.15% f.s. (o.r. = of reading; f.s. = full scale) option mit 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® 42i-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.

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Technical subjects to be changed!