

# Ultrasonic Flowmeter

Flowmax<sup>®</sup> 42i

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SI 010E/FM42i/07.22



Flowmax 42i is a flow meter calculating the volume flow of liquids. Based on the ultrasonic technology Flowmax 42i is able to measure conductive and non-conductive liquids contact free. Flowmax has no moving parts and is absolutely free of wear. The design of the pipe minimizes dead space over the whole geometry. All parts having contact to the medium are PE-HD. Thanks to its technical properties Flowmax is able to measure all kinds of liquids like: DI-Water, Body care liquids, Cosmetics, liquid food, and also aggressive and/or toxic acids and alkalis. Flowmax is characterized by its high measurement accuracy and repeatability. Empty pipe detection is integrated. Optionally Flowmax have a PID controller function. The calculated flow is provided with a response rate of a few milliseconds on the outputs.

Flowmax has by default a preset quantity counter. The start signal can optionally be fed from the outside. A control signal for activation of the pump or valve control is also standard. Flowmax 42i is suitable for operation with piston diaphragm and peristaltic pumps.

## Housing

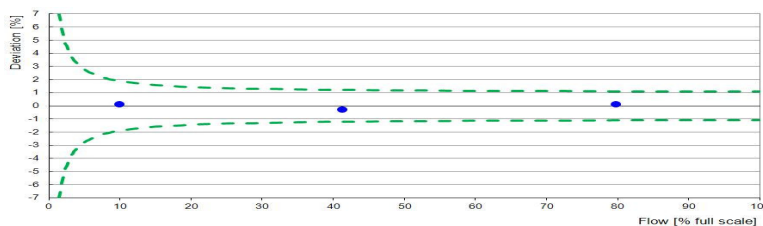
Material	PE-HD (Polyethylene)				
Protection class	IP65				
Medium temperature [°C]	0 ... 50				
Measuring range					
with continuous flow [l/min]	0.012 ... 1,5	0.024 ... 3	0.09 ... 6	0.3 ... 24	0.9 ... 60
pulsating flow measurement is possible from 0.5 l/h (=0.008l/min)					
Nominal diameter [DN]	3	5	7	10	15
Nominal pressure	PN10	PN10	PN10	PN10	PN10
Process connection inner thread	G1/2	G1/2	G1/2	G3/4	G1
Processadapter (optional) PP	1/2"	1/2"	1/2"	3/4"	1"
	outside thread for G+F-connector (other adapters on request)				
Dimensions L/W/H [mm]	168/147/50	168/147/50	168/147/50	171/147/50	176/147/55
Weight [kg] in PE-HD	0.67	0.67	0.67	0.72	0.89

## Electronics

Power supply	24VDC, ca. 3.6W
Electrical connection	5 or 8-pin plug
Display	Simultaneous display of volume flow, quantity, bar graph, lighted
Input	1 digital input, usable for dosing start
Outputs	2 digital outputs, configurable as pulse output or empty pipe alarm, Current output configurable 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 ± 1% o.r. ± 0.15% f.s.
Repeatability	Reference conditions (VDI/VDE 2642) ≤ 0.5%

All flow meter parameters are freely configurable by using the display or FlowCon. FlowCon is not part of the delivery of Flowmax 42i. It can be ordered separately.

The variety of outputs / input depends on the plug selection.



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

## Further information:

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Technical subjects to be changed!

