Ultrasonic Flowmeter

Flowmax® 400i

Flowmax® is a flow meter calculating the volume flow of liquids. Flowmax® is particularly suitable for the automation of wet process facilities with very dynamic processes. 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 PFA (New Teflon). Therefore Flowmax® 400i can be used for very alkaline, very toxic and/or very aggressive media like concentrated acids and leaches. CIP or SIP cleaning processes are possible.

SI 003E/FM400i/06.11

Housing

Material	pipe	PFA (Perfluoralkoxy)			
	electronics	PP (Polypropylene)			
	nut	PVDF (Polyvinylidene fluiride) or PFA option: NPT adaption (Flare to NPT), PFA			
Protection class		IP 65			
Medium temperature		0° ... 80°C*			
End of measuring range in l/min		0,03/0,09 - 6	0,3 - 24	0,9 - 60	1,2 - 120
Diameter DN		7	10	15	20
Max. pressure		7 bar	7 bar	7 bar	7 bar
Process connection					
Connection flare or NPT thread		3/8”	1/2”	3/4“	1“
Dimensions L/W/H in mm		209/120/79	209/120/79	209/120/82	209/120/92
Weight in kg		1,3	1,3	1,3	1,6

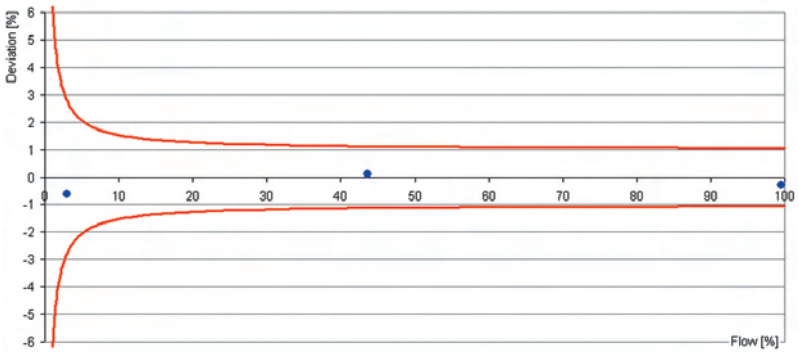
Electronics

Power supply	24VDC / 3,6W
Connection	M12x1 plug 5/8 pin, alternative 10-cors teflon-coated cable, length 5m
Outputs	2 digital outputs, configurable as pulse or alarm output, current output 0/4-20 mA, RS485-interface
Input	1 digital input, usable for dosing start
Communication interface	Data interface (1 wire) alternative RS-485 (2 wire)
Max. error of measurement	±1% o.r. ±3 mm/s (o.r. = of reading) Reference conditions (VDI/VDE 2642)
Repeatability	≤ 0,5%

By using the USB-Converter and FlowSoft® all flow meter parameters are freely configurable.

FlowSoft® and USBtoRS485-Converter are not part of the delivery of Flowmax® 400i. This package can be ordered separately.

Which input/output functions are available is depending on the different plug or cable connection types.



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

Further information:
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* higher temperature range on request
Technical subjects to be changed!

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