Flowmax® 400i

Ultrasonic Flowmeter

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Flowmax® is a flowmeter for measuring liquid flow. Flowmax® is especially suited to measure dynamic processes in closed pipes of an automation environment.
Flowmax® 400i has no moving parts and is free of wear. The design of the pipe minimizes dead volumes 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.

MIB GmbH
Messtechnik & Industrieberatung

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SI 002E/FM400i/04.08

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Its major areas of application are

- controlling and logistic tasks
- automated bath management systems
- very dynamic processes like round or line filling machines
- cooling circuits to control exactly the volume flow and/or empty pipe detection
- measurement of conductible and non-conductible fluids, e.g. DI-water, polymers, detergents, water paints, adhesives, mineral oils, acids and leaches, food like cooking oils, colourings, flavour enhancers and many other liquids
- supply of chemicals and DI-water for controlling, logistics and monitoring of flow
- automatically controlled dispensing attachments
- reproducible batches in dosing plants with dosing times even below 1 second for the whole dosing process incl. valve control by Flowmax® directly
- empty pipe detection, limit control and process monitoring, e.g. dry running protection or valve controlling for keg switching in continuous processes
- in combination with diaphragm pumps. Pulse volumes off 1ml/pulse can be measured exactly and reproducibly

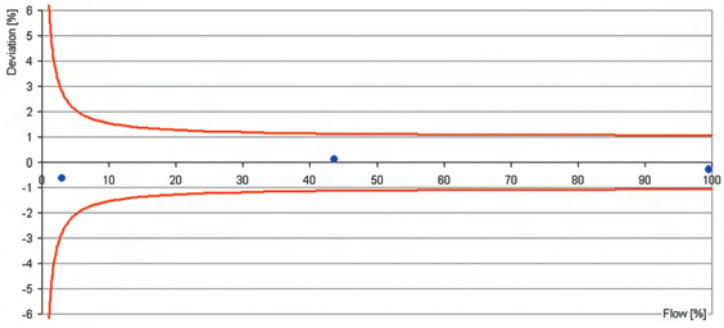
The measuring result is provided over a scalable pulse output and a programmable current output. All parameters of the flowmeter are individually configurable with MIB PC-Software FlowSoft® and USBtoRS485-Converter. The integrated gas control with empty pipe detection at the alarm output offers additional information. Process connection of Flowmax® 400i is free of seals using flare technology or NPT-screwing.

Housing

Material	pipe	PFA (Perfluoralkoxy)			
	electronics	PP (Polypropylene)			
	nut	PVDF (Polyvinylidene fluoride) or PFA option: NPT-adapter (flare to NPT), PFA			
Protection class		IP 65			
Medium Temperature		0° ... 150°C			
Connection flare or thread		3/8”	1/2”	3/4“	1“
End of measuring range in l/min		12	24	60	120
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	10-cors teflon-coated cable, length 5m, alternative plug
Input	1 digital input, usable for dosing start
Outputs	2 digital outputs, configurable as pulse or alarm output, current output 4-20 mA, RS485-interface Outputs and parameters of the flowmeter are freely configurable with PC-software FlowSoft® *
Max. Error of measurement	±1% o.r. ±3 mm/s (o.r. = of reading) Reference conditions (VDI/VDE 2642)
Repeatability	≤ 0,5%
Example	Measuring points of a calibrated Flowmax in error graph according definitions



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

Technical subjects to be changed!

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