

# Ultrasonic Flowmeter

Flowmax® 44i



Flowmax® 44i is a flow meter calculating the volume flow of liquids. Based on the ultrasonic technology Flowmax® 44i is able to measure conductive and non-conductive liquids contactfree. 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® 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 PSU. CIP cleaning processes are possible. Flowmax is characterized by its high measurement accuracy and repeatability. Optionally features: 1. Flowmax have a PID controller funktion: 2. Flowmax have a simple quality control of the medium.

SI 004E/FM44i/07.12

## Housing

Material	PSU (Polysulfon)			
Protection class	IP67			
Medium temperature	-10° ... 80°C*			
End of measuring range in l/min	0,3 – 21	0,9 – 36	3,5 – 60	5,0 – 240
Diameter DN	10	15	20	25
Max. pressure	16 bar	16 bar	10 bar	10 bar
Process connection	1/2"			
Outside thread G or NPT	3/4"			
Tube nozzle Ø outside	12 mm	17 mm	24 mm	1 1/4"
BKS-clamp DIN11864 Form A	34 mm	34 mm	50,5 mm	50,5 mm
Dimensions L/W/H in mm	150/85/90	150/85/90	160/85/105	170/85/105
Weight	350g	350g	450g	450g

## Electronics

Power supply	24VDC / 3,6W
Connection	M12x1 plug 5/8 pins
Outputs	Current output configurable 0/4-20mA Digital output Q1 configurable as pulse output or empty pipe alarm Digital output Q2 configurable as pulse output or empty pipe alarm Digital input I1 usable for dosing start or counter reset Data interface (1 wire) alternative RS-485 (2 wire)

## Input

Communication interface

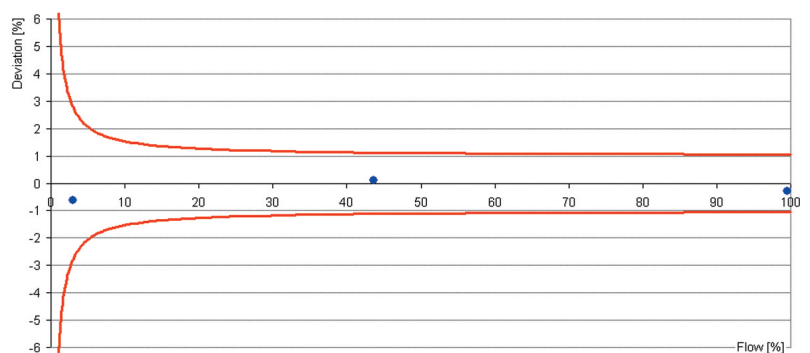
Max. error of measurement

±1% o.r. ±3 mm/s or ±6 mm/s for DN 10 (o.r. = of reading)  
Reference conditions (VDI/VDE 2642)  
≤ 0,5%

Repeatability

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® 44i. This package can be ordered separately.



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!