

# Ultrasonic Flowmeter 超声波流量计

## Flowmax® 44i



Flowmax44i是一款基于超声波技术的测量液体体积流量的流量计。Flowmax44i能够无接触地测量导电和非导电液体。Flowmax没有移动部件，并且完全没有磨损。管道的设计最大限度地减少了整个几何体的死区。所有接液部件都是PPSU。Flowmax能够测量各种液体，例如：去离子水、身体护理液、化妆品、液态食品，以及腐蚀性和/或有毒的酸和碱。特点是其高测量精度和可重复性，集成了空管检测。Flowmax具有PID控制器可选功能。流量输出响应时间仅为几毫秒。

Flowmax默认带有一个预设的计数器。启动信号可以选择性地从外部发送。用于启动泵或阀控制的控制信号也是标准配置。Flowmax44i适用于活塞隔膜和蠕动泵等。

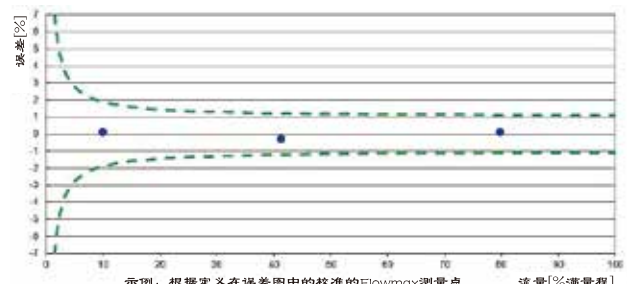
### 壳体

材料	PPSU			
防护等级	IP67			
介质温度[°C]	-10 ... 80(可选最高 95°C, 特殊最高 140°C)			
测量范围	0.3 ... 21	0.9 ... 36	3.5 ... 60	5.0 ... 240
公称直径[DN]	10	15	20	25
公称压力	PN16	PN16	PN10	PN10
工艺连接				
外螺纹NPT或G	1/2"	3/4"	1"	1 1/4"
BKS夹 DIN 11864 形式 A	34 mm	34 mm	50.5 mm	50.5 mm
尺寸L/W/H [mm]	150/85/90	150/85/90	160/85/105	170/85/105
重量 [kg] in PE-HD	350 g	350 g	450 g	450 g

### 电子部件

电源	24VDC, 约 3.6W
电气连接	5 或 8 针插头
显示器(可选)	同时显示体积流量、累计量、条形图、背光
输入	1 组数字输入, 可用于定量启动或总量清零
输出	2 组数字输出, 可配置为脉冲输出或空管报警 电流输出可配置 0/4-20mA, RS485 数据接口
测量最大误差	±2% 或 ±0.15% f.s. (o.r. = of 读数, f.s. = f 满量程) 选项 ±1% 或 ±0.15% f.s. 参考条件(VDI/VDE 2642)
重复性	≤0.5%

所有流量计参数均可通过显示屏或 FlowCon自由配置。FlowCon不属于Flowmax44i的供货范围，可单独订购。输出/输入的种类取决于插头选择。



### 中国销售

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# Ultrasonic Flowmeter

# Flowmax<sup>®</sup> 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. 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 PPSU. 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 44i is suitable for operation with piston diaphragm and peristaltic pumps.

## Housing

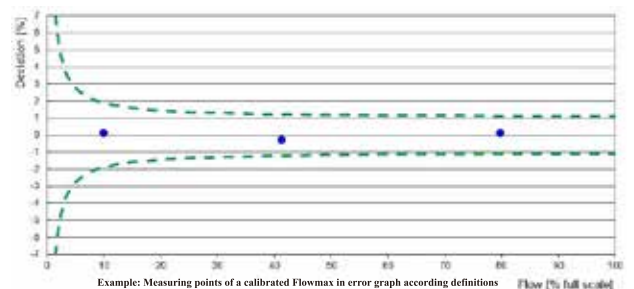
Material	PPSU			
Protection class	IP67			
Medium temperature [°C]	-10 ... 80			
Measuring range [l/min]	0.3 ... 21	0.9 ... 36	3.5 ... 60	5.0 ... 240
Nominal diameter [DN]	10	15	20	25
Nominal pressure	PN16	PN16	PN10	PN10
Process connection				
outside thread NPT or G	1/2"	3/4"	1"	1 1/4"
BKS-Clamp DIN 11864 Form A	34 mm	34 mm	50.5 mm	50.5 mm
Dimensions L/W/H [mm]	150/85/90	150/85/90	160/85/105	170/85/105
Weight	350 g	350 g	450 g	450 g

## Electronics

Power supply	24VDC, ca. 3.6W
Electrical connection	5 or 8-pin plug
Display (option)	Simultaneous display of volume flow, quantity, bar graph, lighted
Input	1 digital input, usable for dosing start or counter reset
Outputs	2 digital output, 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. Reference conditions (VDI/VDE 2642)
Repeatability	≤ 0.5%

All flow meter parameters are freely configurable by using the display or FlowCon. FlowCon is not part of the delivery of Flowmax44i. It can be ordered separately.

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



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