

FLUXUS F601

Den portabla beröringsfria ultraljudsflödesmätaren från Flexim

FLUXUS F601 Ultraljudsflödesmätare klarar att mäta de flesta vätskeflöden. Givarna monteras utanpå röret vilket gör den mycket lätt att använda.

Enkel

- Mycket enkel att installera
- Klarar rör dim. 6 mm till 6500 mm
- Inga mekaniska ingrepp i röret
- Klarar temperaturer på 400 °C
- Förbättrad batteritid, minst 14 tim.
- Kan mäta 2 olika flöden samtidigt
- Inbyggd logger 100000 mätningar
- Utsignaler 4-20 mA / puls
- Matning 220 VAC eller batteridrift
- Givarna kan monteras i Ex miljö



Ekonomisk

- Klarar att mäta flöden mellan 0,01 – 25 meter / sec
- Mäter volymflöde, massflöde, värmemängd eller flödeshastighet
- Mekaniskt uppbyggd för att klara tuffa industrimiljöer IP 67



Noggrannhet

- HybridTrek, automatisk anpassning till ökad partikelmängd i mediet
- Onoggrannheten är +/- 1,2 – 1,6 % av aktuellt flöde +/- 0,01 m/sec¹
- Vid fältkalibrering upp till +/- 0,5 % av aktuellt flöde +/- 0,01 m/sec²

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measurement	
measuring principle	transit time difference correlation principle, automatic NoiseTrek selection for measurements with high gaseous or solid content
flow velocity	0.01...25 m/s
repeatability	0.15 % of reading ± 0.01 m/s
accuracy ¹	
with standard calibration	± 1.6 % of reading ± 0.01 m/s
with extended calibration (option)	± 1.2 % of reading ± 0.01 m/s
with field calibration ²	± 0.5 % of reading ± 0.01 m/s
medium	all acoustically conductive liquids with < 10 % gaseous or solid content in volume (transit time difference principle)
flowmeter	
power supply	100...240 V/50...60 Hz (power supply), 10.5...15 V DC (socket at flowmeter) or integrated battery
battery	Li-Ion, 7.2 V/4.5 Ah operating time (without outputs, inputs and backlight): > 14 h
power consumption	< 6 W
number of flow measuring channels	2
signal damping	0...100 s, adjustable
measuring cycle (1 channel)	100...1000 Hz
response time	1 s (1 channel), option: 70 ms
material	PA, TPE, AutoTex, stainless steel
degree of protection according to EN 60529	IP 65
weight	1.9 kg
fixation	QuickFix pipe mounting fixture
operating temperature	-10...+60 °C
display	2 x 16 characters, dot matrix, backlit
menu language	English, German, French, Dutch, Spanish
measuring functions	
physical quantities	volume flow, mass flow, flow velocity, heat flow (if temperature inputs are installed)
totalizers	volume, mass, option: heat quantity
calculation functions	average, difference, sum
data logger	
loggable values	all physical quantities and totalized values
capacity	> 100 000 measured values

¹ for transit time difference principle, reference conditions and $v > 0.15$ m/s

² reference uncertainty < 0.2 %

FLUXUS	F601
communication	
interface	RS232/USB
serial data kit	
software (all Windows™ versions)	- FluxData: download of measured data, graphical presentation, conversion to other formats (e.g. for Excel™) - FluxKoeff: creating medium data sets
cable	RS232
adapter	RS232 - USB
outputs	
	The outputs are galvanically isolated from the flowmeter.
number	see standard scopes of supply on page 9, max. on request
accessories	output adapter (if number of outputs > 4)
current output	
range	0/4...20 mA
accuracy	0.1 % of reading ± 15 μ A
active output	$R_{ext} < 200 \Omega$
passive output	$U_{ext} = 4...16$ V, dependent on R_{ext} $R_{ext} < 500 \Omega$
frequency output	
range	0...10 kHz
open collector	24 V/4 mA
binary output	
optorelay	32 V/100 mA
binary output as alarm output - functions	limit, change of flow direction or error
binary output as pulse output - pulse value - pulse width	0.01...1000 units 1...1000 ms
inputs	
	The inputs are galvanically isolated from the flowmeter.
number	see standard scopes of supply on page 9, max. 4
accessories	input adapter (if number of inputs > 2)
temperature input	
designation	Pt100/Pt1000
connection	4-wire
range	-150...+560 °C
resolution	0.01 K
accuracy	± 0.01 % of reading ± 0.03 K
current input	
range	passive: -20...+20 mA
accuracy	0.1 % of reading ± 10 μ A
passive input	$R_i = 50 \Omega$, $P_i < 0.3$ W
voltage input	
range	0...1 V
accuracy	0.1 % of reading ± 1 mV
internal resistance	$R_i = 1$ M Ω

Gällande transducers och andra tillbehör se separata datablad