

# 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/sec<sup>1</sup>
- Vid fältkalibrering upp till +/- 0,5 % av aktuellt flöde +/- 0,01 m/sec<sup>2</sup>

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<b>measurement</b>	
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 $\pm 0.01$ m/s
accuracy <sup>1</sup>	
with standard calibration	$\pm 1.6$ % of reading $\pm 0.01$ m/s
with extended calibration (option)	$\pm 1.2$ % of reading $\pm 0.01$ m/s
with field calibration <sup>2</sup>	$\pm 0.5$ % of reading $\pm 0.01$ m/s
medium	all acoustically conductive liquids with < 10 % gaseous or solid content in volume (transit time difference principle)
<b>flowmeter</b>	
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
<b>measuring functions</b>	
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
<b>data logger</b>	
loggable values	all physical quantities and totaled values
capacity	> 100 000 measured values

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

<sup>2</sup> reference uncertainty < 0.2 %

<b>FLUXUS</b>	<b>F601</b>
<b>communication</b>	
interface	RS232/USB
<b>serial data kit</b>	
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
<b>outputs</b>	
	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)
<b>current output</b>	
range	0/4...20 mA
accuracy	0.1 % of reading $\pm 15$ $\mu$ A
active output	$R_{ext} < 200 \Omega$
passive output	$U_{ext} = 4...16$ V, dependent on $R_{ext}$ $R_{ext} < 500 \Omega$
<b>frequency output</b>	
range	0...10 kHz
open collector	24 V/4 mA
<b>binary output</b>	
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
<b>inputs</b>	
	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)
<b>temperature input</b>	
designation	Pt100/Pt1000
connection	4-wire
range	-150...+560 °C
resolution	0.01 K
accuracy	$\pm 0.01$ % of reading $\pm 0.03$ K
<b>current input</b>	
range	passive: -20...+20 mA
accuracy	0.1 % of reading $\pm 10$ $\mu$ A
passive input	$R_i = 50 \Omega$ , $P_i < 0.3$ W
<b>voltage input</b>	
range	0...1 V
accuracy	0.1 % of reading $\pm 1$ mV
internal resistance	$R_i = 1$ M $\Omega$

Gällande transducers och andra tillbehör se separata datablad