FlowRental
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FLUXUS F601 Series

Dual Channel, Dual Mode Ultrasonic Flowmeter

FlowRental.com has successfully rented the FLUXUS F601 to hundreds of unique clients, and it has never failed to produce unequaled results. Our clients have measured pipes from ¼ inch all the way up to 200 inches in diameter. When you absolutely must make flow measurements under the most severe conditions, the FLUXUS F601 is your only solution. Following are its specifications:

General

Measuring principle	Ultrasonic time difference correlation principle and Doppler
Flow velocity range	0.01...25m/s
Resolution	0.025 cm/s
Repeatability	0.15 % of measured value ± 0.015 m/s
Accuracy	Volume flow ± 1 ... 3 % of measured value depending on application, ±0.5 % of measured value with process calibration Flow velocity ± 0.5 % of measured value
Turn down ratio	1/200
Gaseous and solid content of medium	< 10 % of volume

Flow transmitter

Enclosure	Portable
Degree of protection	IP 54 according EN 60529
Operating temperature	14...140 ºF
Housing material	Aluminum, powder coated
Flow channels	2
Power supply	Internal rechargeable battery, 6 V/4 Ah or external power supply 9...15V DC
Operating time	>14 h with fully charged battery
Display	2 x 16 digit LCD, dot matrix, backlit
Dimensions	H 118 x W 276 x D 310mm (with handle)
Power consumption	< 2.5 W in measurement mode
Signal damping	0...60 s, configurable
Response time	1 s, 70 ms optional
Measuring cycle	100 ... 1000 Hz, single channel
Calculation functions	Average/difference/sum

Quantity and units of measurement

Volumetric flow rate	m³/h, m³/min, m³/s, l/in, l/min, l/s, USgph, bls/d
Flow velocity	m/s, inch/s
Mass flow rate	g/s, t/h, kg/in, kg/min
Volume	m³, l, gal (gallons)
Mass	g, kg, t
Heat flow	W. kW, MW (only with heat quantity option)
Heat quantity	J. kJ, MJ (only with heat quantity option)

Internal data logger

Storage capacity	approx.100,000 measuring values All measured and totalized
Logging data	values, parameter sets

Communication

Serial interface	RS 232
Data	Instantaneous measured value, parameter set, logged data

Process inputs	Galvanically isolated from main electronics
Temperature	PT 100, four-wire circuit, measuring range - 58...750 ºF
Current	0...20mA; R_i=50 ohm
Voltage	0...1 V; R_i = 1 Megohm
Process Outputs	Galvanically isolated from main electronics
Current	0/4... 20 mA; passive (U_{ext}< 24 V) or active (R_{ext} < 500 ohm)
Voltage	0...1 V or 0...10V, R_i=500 ohm
Frequency	0...1 kHz or 0 10 kHz; (OC)
Digital (pulse, status)	Totalizer value 0.01 1000 / unit; width 80...1000 ms; (OC/ Reed) Reed = Reed-NO contact (300 V /0.5 A) OC = Open-Collector

Clamp-on sensors

Type M2N, M2E

Rated diameter range	4 inch to 256 inch
Dimensions	1.9 x 1.18 x 1.34 inch
Material	Stainless steel
Temperature range	Type M2N: -22 ... 266 ºF; TypeM2E: -22 ... 392 ºF, for short periods up to 572 ºF
Degree of protection	IP 65 acc. EN 60529, IP 68 optional

Type Q3N, Q3E

Rated diameter range	1 inch to 16 inch
Dimensions	1.7 x 0.71 x 0.87 inch
Material	Stainless steel
Temperature range	Type Q3N: -22...266 ºF; Type Q3E: -22...392 ºF, for short periods up to 572 ºF
Degree of protection	IP 65 acc. EN 60529, IP 68 optional

Special Clamp-on sensors

Type S2N	¼ inch to 1 ½ inch, -22...266 ºF
Type K2N	4 inch to 256 inch, -22...266 ºF

Wall thickness measurement

Measuring range :	0.04 to 7.9 inches
Resolution	0.0004 inches
Linearity	0.004 inches
Temperature range	Standard version -4 ... 140 °F; High temperature version 32 ... 398 °F, for short periods up to 540 °F

Accessories

-External power supply 110 V, 60Hz/12 V, 1.2 A; IP 30
-Cable extension 15 ft, 33 ft
-Sensor positioning mounts
-External printer, ink jet 192 dpi

Software Data

Functionality	Downloading of measured values/parameter se and export
Operating systems	All Windows™ Operating Systems