Data sheet deltawaveSUF

Range of application	
Pipe diameter	DN25 – DN300
Ambient conditions	-25 … +60 °C, ≤ 90% RH
Media	Natural gas, propane, butane, LPG, air, nitrogen and other gases
Medium temperature	-25 … +60 °C
Pressure level	PN16
Pressure measuring range	0 … 16 bar abs *
Media-contacted Material	Aluminium, stainless steel, glass
Accuracy class	Class 1.0; optional: Class 0.5

Interfaces	
Signal output	HF pulse: Output check pulse signal 2,5 – 30 VDC (ext.), max. 5kHz NF pulse: Output measuring pulse signal 2,5 – 26 VDC (ext.)
Digital interface (optional)	RS485, Modbus-RTU, NB-IOT
Analogue output (optional)	Compensated flow rate (Nm3/h) as 4...20 mA (passive)

Technical data	
Measurement method	Ultrasonic transit time difference
Measured values	Volume flow, standard volume flow, pressure and temperature
Power supply	Battery operation: min. 4 years External supply: 5 - 26 VDC
Insulation resistance	> 20 MΩ
Pressure loss	< 1,0 kPa (10 mbar)
Pressure / temperature measurement	Internal digital sensor, Pressure error less than 0.5 kPa, Temperature error less than 0.5°C
Data storage	60 days with 1h values, 11 years daily values, Readable via RS485
LCD-Display	Total volume, flow rate, temperature, pressure, battery, NB-IOT signal, alarm
Explosion protection	ATEX: ⟨Ex⟩ II 1G Ex ia IIC T4 Ga
Connecting flanges:	DN25 – DN40: DIN-EN 1092-1 PN40 DN50 – DN300: DIN-EN 1092-1 PN16

* Compensation calculation according to ideal gas law for natural gas only permissible up to 4 bar

Model specifications

Nominal diameter DN (mm)	Model	Measuring start (m3/h)	Measuring range (m3/h)	Measurement accuracy class (m3/h)		Number of measurement paths
				± 1,0 %	± 0,5 % (opt.)	
25 (1“)	DN25	0,1	0,5 – 50	0,5 – 50		1
32 (1“)	DN32	0,1	0,8 – 80	0,8 – 80		2
40 (1“)	DN40	0,15	1,2 – 120	1,2 – 120		2
50 (2“)	DN50	0,2	2 – 200	2 – 200	5 – 180	2
80 (3“)	DN80	0,5	5 – 500	5 – 500	10 – 450	4
100 (4“)	DN100	0,8	8 – 800	8 – 800	20 – 700	4
150 (6“)	DN150	1,8	18 – 1800	18 – 1800		4
200 (8“)	DN200	3	30 – 3000	30 – 3000		4
250	DN250	4,8	48 – 4800	48 – 4800		4
300	DN300	7	70 – 7000	70 – 7000		4

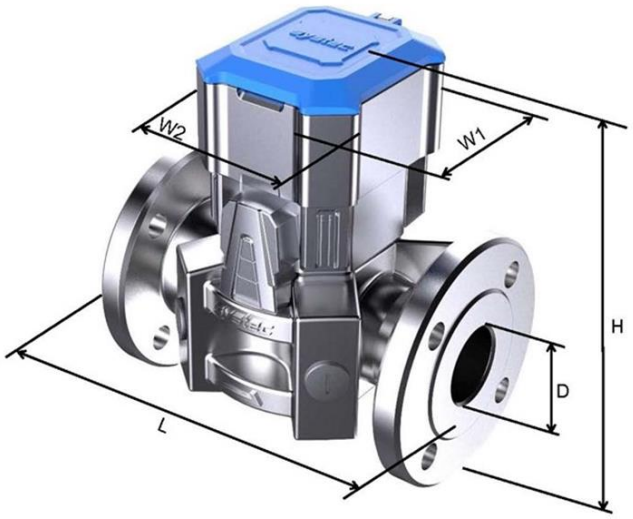


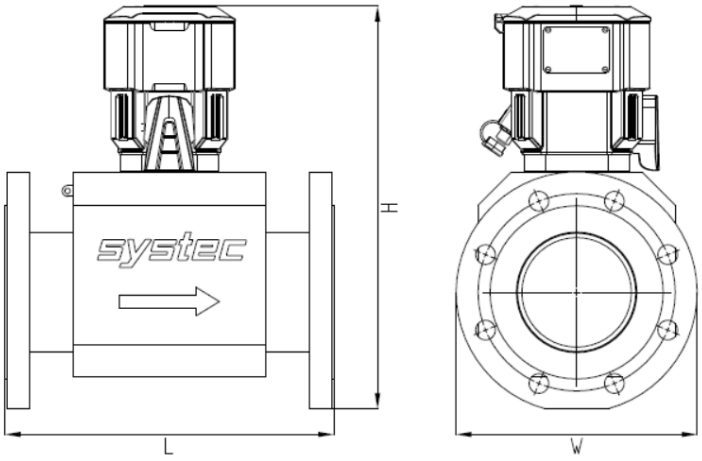
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Installation dimensions





Aluminium housing						Stainless steel housing				
Nominal diameter	Dimensions (in mm)					Nominal diameter	Dimensions (in mm)			
	D	L	H	W1	W2		D	L	H	W
DN25	25	241	270	142	120	DN100	100	300	370	220
DN32	32	241	270	142	120	DN150	150	450	430	285
DN40	40	241	270	142	120	DN200	200	600	490	340
DN50	50	241	270	142	120	DN250	250	600	550	405
DN80	80	241	300	142	120	DN300	300	600	605	460

Any questions? We are happy to help you!

If you are not sure which deltawaveSUF is right for your application, contact us! We will be happy to help.

Further, detailed information about the deltawaveSUF and application examples can be found on the product pages of our website at www.systec-controls.de (Products)

At www.systec-controls.de (Info & Contact) you will find your personal contact person and you can also send us an enquiry using the online form.

You can get in touch with the specialists at the head office here:

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