

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 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, GPRS
Analogue output (optional)	Compensated flow rate (Nm ³ /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	CNEX Ex ic IIB T4 Gc.
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 (m ³ /h)	Measuring range (m ³ /h)	Measurement accuracy class (m ³ /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

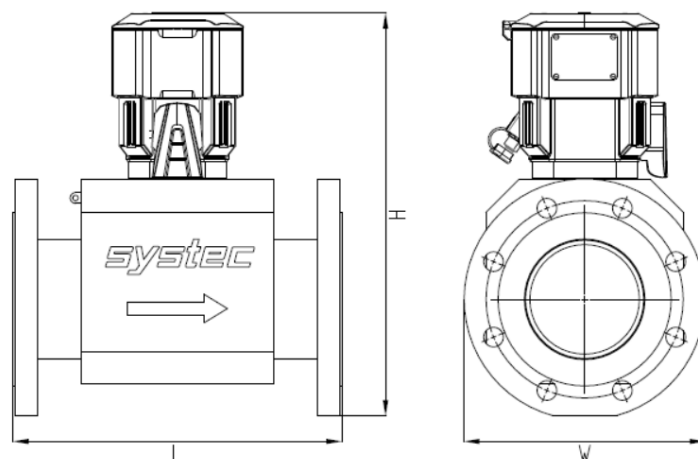


systemec Controls Mess- und Regeltechnik GmbH
 Lindberghstrasse 4, 82178 Puchheim
 Telefon: +49-(0)89 - 80906-0, Telefax: +49-(0)89 - 80906-200
 eMail: info@systemec-controls.de
<http://www.systemec-controls.de>



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Installation dimensions



Aluminium housing

Nominal diameter	Dimensions (in mm)				
	D	L	H	W1	W2
DN25	25	241	270	142	120
DN32	32	241	270	142	120
DN40	40	241	270	142	120
DN50	50	241	270	142	120
DN80	80	241	300	142	120

Stainless steel housing

Nominal diameter	Dimensions (in mm)				
	D	L	H	W	
DN100	100	300	370	220	
DN150	150	450	430	285	
DN200	200	600	490	340	
DN250	250	600	550	405	
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.systemec-controls.de (Products)

At www.systemec-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:

systemec Controls Mess- und Regeltechnik GmbH
 Lindberghstrasse 4, 82178 Puchheim
 Telefon: +49-(0)89 - 80906-0, Telefax: +49-(0)89 - 80906-200
 eMail: info@systemec-controls.de
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