

# 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 ... 4 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 <sup>3</sup> /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.
Installation	Flange connection

Model specifications						
Nominal diameter DN (mm)	Model	Measuring start (m <sup>3</sup> /h)	Measuring range (m <sup>3</sup> /h)	Measurement accuracy class (m <sup>3</sup> /h)		Number of measurement paths
				± 1,0 %	± 0,5 % (opt.)	
25 (1")	DN25	0,5	1 – 50	1 – 50		2
32 (1")	DN32	0,5	1 – 70	1 – 70		2
40 (1")	DN40	0,5	2 – 130	2 – 130		2
50 (2")	DN50	0,5	2 – 220	2 – 220	5 – 180	2
80 (3")	DN80	1,2	5 – 550	5 – 550	10 – 450	2
100 (4")	DN100	2,0	12 – 800	12 – 800	20 – 700	4
150 (6")	DN150	4,5	15 – 1700	15 – 1700		4
200 (8")	DN200	9,5	27 – 3000	27 – 3000		4
300	DN300	12	70 - 7000	70 - 7000		4



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## Installation dimensions



Nominal diameter	Dimensions (in mm)				
	D	L	H	W1	W2
DN25	25	241	220	142	120
DN32	32	241	240	142	120
DN40	40	241	255	142	120
DN50	50	241	267	142	120
DN80	80	241	300	142	120
DN100	100	241	320	142	120
DN150	150	450	430	142	120
DN200	200	600	480	142	120

### 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](http://www.systemec-controls.de) (Products)

At [www.systemec-controls.de](http://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.

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