

HSW Ultrasonic Flow Transmitter Type DW-S

- No moving parts
- No reduced cross section no pressure loss
- Very big measuring dynamic
- No problem to measure high velosity
- Compact design
- Very good long time stability
- Excellent price/performance relation



The functional principle of the DW-S Flowtransmitter is based on 2 ultrasonic sensors which are placed on opposite position.

The delay time of the sound depends from the velosity of the flow. Both sensors are work alternating as transmitter and receiver. The difference of the delay time is proportional to the flow velocity. The patent pending HSW system works unlike all other ultra sonic measuring systems parallel to the liquid stream. This system offers very good accuracy, an excellent measuring dynamic and the possibility to measure very high flow speed without reduced cross section at a very compact design.

Technical data

Connection sizes:	1/2", 1" und 2" external thread
Pipe section:	Brass (1/2"version), stainless steel 1.4571 (1" and
-	2" version)
Sensors:	Stainless steel1.4571
Gehäuse:	Aluminium diecast
Measuring range:	0,1 - 6m/s, it is possible to choose different unities
Messfunktionen:	Flow speed, flow quantity and totaliser
Display:	2x16 digits illuminated
Power supply:	24VDC ± 15%
Power consumption:	200 mA max.
Relays:	30VDC/1A (2x) SPDT
Signal output :	4-20mA, 0-10V, Frequency (adjustable max. 32 kHz)
Interface:	RS232, RS-485 (with optional interface cable only)
Measuring priciple:	Ultra sonic transit-time difference method
Medium:	Acoustical conductive fluids, gas solids contents ≤
	10 volume %.
Operation:	3 buttons at the front side
Flow direction:	optional (housing is rotatable)
Genauigkeit:	± 2% v. M.E. at norm conditions
Operation temperature :	-10 -60 ℃
Operation temperature (medium) :	-20°- 100°(höhere auf Anfrage)
Pressure loss:	no cross section reduction
Max. Pressure:	25 bar