

# **S462**

Compact Ultrasonic Flow Meter for Liquids





CLAMP ON No contact to medium



TRANSIT TIME CORRELATION TECHNIQUE



PORTABLE Connectable to S551



LOCAL DISPLAY For easy configuration and live values



**STATIONARY**Connectable to S330 / S331 series



COMPACT DESIGN Can be installed anywhere



# **Benefits**

- Clamp on type, very easy installation
- No moving parts
- Can be installed on stainless steel pipe, carbon steel pipe, copper pipe or plastic pipe such as (PVC, PVDF, PPR, PPH, HDPE, etc.)
- Clean fluid measurements: water, sea water, others on request
- Available pipe sizes: DN20, DN25, DN32, DN40

# **Time-efficient Liquid Measurement**

The S462 ultrasonic clamp on flow meter for liquids uses the proven transit-time correlation technique. The unit is simply clamped onto the pipe and will never come in contact with the fluid.

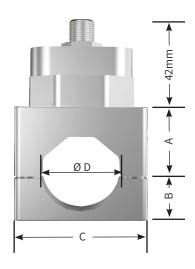
Available in pipe sizes from DN20 ... DN40 the S462 impresses with ease of installation and accurate flow readings. It comes with Modbus/RTU interface and 4 ... 20 mA output, which makes it easy connectable to any facility monitoring system.

Of course S462 clamp on ultrasonic flow meter also works with the SUTO displays and data loggers S330/331 and S551.

## **Dimensions (Main Unit)**



# **Dimensions (Mounting Bracket)**



Model size	A B C	_	D (mm)	nm)	
Size	(mm)	(mm)	(mm)	min	max
DN20	26.5	15	58	25	28
DN25	30	18	58	32	35
DN32	33	22.5	68	38	45
DN40	38	27	78	48	54

# **Easy Installation**







# Technical Data

Measurement			
Flow			
Accuracy	1.5 % o.RDG + 0.2 % FS (0.5 5.0 m/s)		
Selectable units	m³/h, l/min, GAL		
Measuring range	See table below		
Repeatability	0.80 % o.RDG		
Sensor	Piezo ultrasonic transducer		
Sampling rate	3 samples / sec		
Turn-down ratio	10:1		
Response time (t90)	<2 sec		
Consumption			
Selectable units	m³, liter, GAL		
Reference conditions			
Selectable conditions	20 °C 1000 mbar (ISO1217), 0 °C 1013 mbar (DIN1343) freely adjustable		

Signal / Interface & Supply			
Analog output			
Signal	4 20 mA		
Scaling	0 max flow / adjustable		
Load	<600R		
Update rate	3/sec		
Fieldbus			
Protocol	Modbus/RTU		
Supply			
Voltage supply	20 28 VDC		
Current consumption	100 mA @ 24 VDC		

General data	
Configuration	
Settings	via integrated keyboard
Display	
Integrated	OLED, 128 x 64 pixel (31 x 16 mm)
Data Logger	
Totalizer	Daily, monthly, yearly consumption
Material	
Housing	Aluminum alloy
Sensor	PEI
Display cover	PMMA
Key pad	F150
Miscellaneous	
Dimensions	See dimension drawing
Electrical connection	1 x M12 (5 pole)
Protection class	IP65
Approvals	CE, RoHS, FCC
Weight	0.47 0.60 kg (depends on model)
Operating conditions	i
Medium	Water, sea water, others on request
Medium quality	No solid particles, no air bubbles
Pipe material	Carbon steel, stainless steel, copper, PVC, PP, PU
Medium temperature	0 50 °C
Ambient temperature	0 50 °C
Ambient humidity	< 95 % rH
Storage temperature	-30 +70 °C
Transport temperature	-30 +70 °C
Pipe sizes	DN20, DN25, DN32, DN40

Model Depending Technical Data					
	Model	DN20	DN25	DN32	DN40
	Pipe OD (mm)	25 28	32 35	38 45	48 54
Pipe size	Pipe ID (mm)	20	25	32	40
	NPS	3/4"	1″	11/4"	1½"
Flow	Min flow (I/min)	0.94	1.47	2.41	3.77
Range	Max flow (I/min)	94.2	147.2	241.2	377.0

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# Ordering

Please use the following tables to assist in placing your order with our sales staff.

### **S462 Compact Ultrasonic Flow Meter for Liquids** (Clamp-On)

Order No.	Description			
S695 4621	S462 Clamp On Ultrasonic Flow Meter, DN20 , including 2m cable and 4 Coupling pads			
S695 4622	S462 Clamp On Ultrasonic Flow Meter, DN25 , including 2m cable and 4 Coupling pads			
S695 4623	S462 Clamp On Ultrasonic Flow Meter, DN32, including 2m cable and 4 Coupling pads			
S695 4624	S462 Clamp On Ultrasonic Flow Meter, DN40 , including 2m cable and 4 Coupling pads			

### **S462 Accessories**

Order No.	Description
A695 4620	Coupling pad, 4 pieces
A554 0129	Transport casing S462 , can hold 4 units, battery pack, 2 m cable, 5 m cable, cal cert, IM, dimensions: 465 x 365 x 185 mm
A554 0107	Plug-in power supply, 100 240 VAC / 24 VDC, 0.5 A , 2 m cable M12 connector. Recommended for portable unit
A553 0156	Cable to connect external power bank, 1.8 m, USB-C connector for power bank, M12 connector 90 degree for S462
R200 4620	Calibration S462
A554 3310	RS-485 splitter T, with 3 x M12 connectors to con- nect RS-485 devices to a bus



Portable set in transport casing. Can hold up to 4 units with battery pack, cables, charger and documentation



S462 powered by external power bank with connection cable A553 0156

Note: Power bank must be sourced locally due to shipping restrictions [USB-C, 20 V, min. 80 mA]



