

# **S462**

Clamp-on

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.

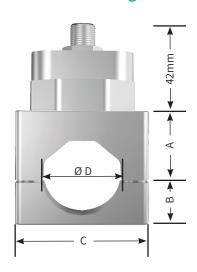
Available in pipe sizes from DN20 ... DN40 the S462 impresses with ease of installation and accurate flow readings. It comes with Modbus/RTU interface and 4 ... 20 mA output, which makes it easy connectable to any facility monitoring system.

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	Α	В	С	<b>D</b> (mm)	
size	(mm)	(mm)	(mm)	min	max
DN10	- 28.5	10	58	13.5	16.5
DN15				16.5	23
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	0.05 5.0 m/s (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				
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	DN10, DN15, DN20, DN25, DN32, DN40			

# Model Depending Technical Data

Model		DN10	DN15	DN20	DN25	DN32	DN40
	Pipe OD	13.5 16.5	16.5 23	25 28	32 35	38 45	48 54
Pipe size (mm)	Pipe ID	10	15	20	25	32	40
	NPS	3/8"	1/2"	3/4"	1"	11/4"	1½"
	0.05 m/s	0.2	0.5	0.9	1.5	2.4	3.8
Flow Range (I/min)	0.5 m/s	2.4	5.3	9.42	14.7	24.1	37.7
	5.0 m/s	23.6	53.0	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 4625	S462 Clamp On Ultrasonic Flow Meter, DN10, including 2m cable and 4 Coupling pads
S695 4626	S462 Clamp On Ultrasonic Flow Meter, DN15, including 2m cable and 4 Coupling pads
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	O 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	Main unit 100 240 VAC/24 VDC, 0.5 A for SUTO sensors, 1,5 m cable, M12 connector			
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 connect 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]



