

ULTRASONIC FLOW METER S 460











Measure liquid flow and consumption



S 460 FEATURES









S 460 OPERATION PRINCIPLE

The S 460 ultrasonic flow meter uses the proven clamp-on transit-time correlation technique. The ultrasonic transducers are simply clamped onto the outside of the pipe and never come in contact with the fluid.

The transducers are connected to a controller which is available as hat rail, or portable version. The stationary models can be connected to the S 330/331 series of displays and data loggers where the portable model is connectable to the S 551.

Measurement of liquid flows and consumption such as:

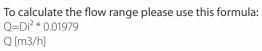
- Chemical addition
- Cooling and heating water
- Drinking water
- Broad range of refined hydrocarbons
- Potable water
- De-ionized and demineralized water
- Sanitary flow rate measurements
- Purified water



S 460-W, wall mountable controller

S 460 TECHNICAL DATA

General Specifications		
Velocity range	0.03 20 m/s	
Repeatability	0.2% of reading	
Accuracy	±1% of reading	
Temperature sensor	PT100 3-wire	
Output	4 20 mA	
Communication	Modbus/RTU, Modbus ASCII	
Pipe sizes	32 6000 mm (depending on transducer type, inner diameter)	
Temperature range controller transducer	-30°C +80°C -30°C +90°C (standard) -30°C +160°C (High temperature)	
Physical units	Selectable	
Supply	24 VDC / 1.5 W (S 460-P) 230 VAC or 24 VDC (S 460-W)	
Dimensions:	Wall version: 190 x 155 x 85 mm Portable version: 177 x 177 x 60 mm	



Di [mm]



Clamp-on temperature sensors are used for energy calculation in heating and cooling systems



Complete wall mountable set: S 460-W + transducer pair (metal stretcher and coupling agent are included in S 460-W)



Ultrasonic transducer pair, screw terminals

S 460 ORDERING



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

	Ultrasonic flow meter controller, wall mountable		
	D554 0074	S 460-W, ultrasonic flow meter controller, wall mountable, including 5 m connection cable to transducers, metal stretcher and coupling agent	
	Ultrasonic tra	ansducer pair	
20 20 20	S694 4606	Ultrasonic transducer pair, DN32 DN100, screw terminals, for stationary, TS-2	
	S694 4607	Ultrasonic transducer pair, DN100 DN700, screw terminals, for stationary, TM-1	
	S694 4608	Ultrasonic transducer pair, DN300 DN6000, screw terminals, for stationary, TL-1	
Heart Section	Portable ultrasonic controller for liquid flow sensor		
A	P554 0070	S 460-P, ultrasonic controller for liquid flow sensor, connectable to S 551, including 5 m connection cable to S 551 and to transducers, metal stretcher and coupling agent	
	Ultrasonic tra	ansducer pair	
Optional Optional	S694 4603	Ultrasonic transducer pair, DN32 DN100, socket terminals, for portable, TS-2	
	S694 4604	Ultrasonic transducer pair, DN100 DN700, socket terminals, for portable, TM-1	
	S694 4605	Ultrasonic transducer pair, DN300 DN6000, socket terminals, for portable, TL-1	
	Transducer cable pair		
	A553 0124	Transducer cable pair, red and blue connector, 5 m (included in P554 0070)	
~	Transducer cable pair		
	A553 0127	Transducer cable pair, open wire, 2 poles, outer diameter 7 mm, shielding (2 x 5 m included in D554 0074)	
<u> </u>	Sensor cable, 6 poles		
	A553 0121	Sensor cable, 6 poles, AWG22, 7.5 mm outer diameter, w/ shielding, black [per meter] (for connection to S 330/331 displays)	
	Coupling agent		
The state of the s	A554 0075	Coupling agent, ultrasonic transducers, 100 g, temporary installations (included in P554 0070)	
	Metal stretcher		
	A554 0077	Metal stretcher for installations of transducers (2 pieces) (2 pieces included in D554 0074 + P554 0070)	
	Coupling agent		
	A554 0078	Coupling agent, ultrasonic transducers, 100 g, permanent installations (included in D554 0074)	
	Temperature sensor, Pt100		
	S604 0107	Temperature sensor, Pt100, 3-wire, with 2 m cable, clamp-on sensor for pipes, including stretcher (2 sensors required for energy calculation / only for stationary applications)	

