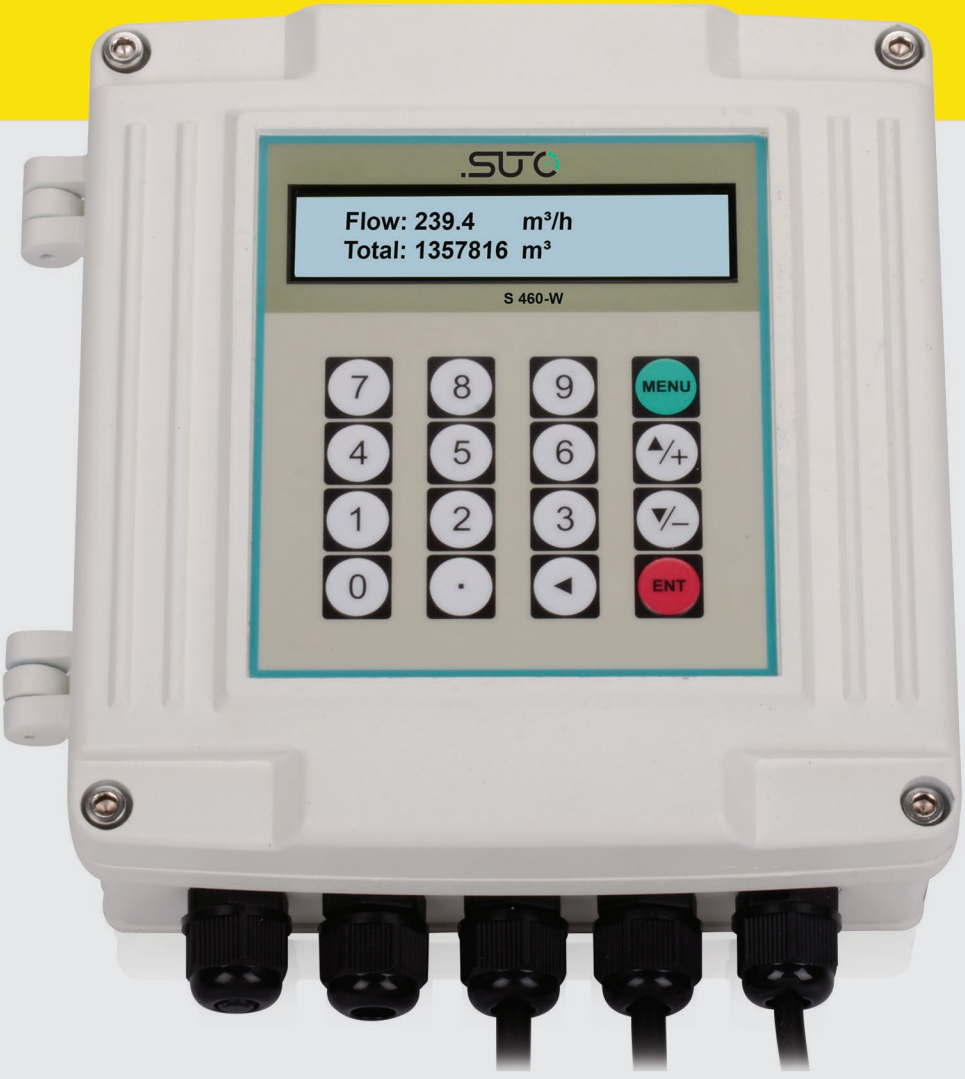
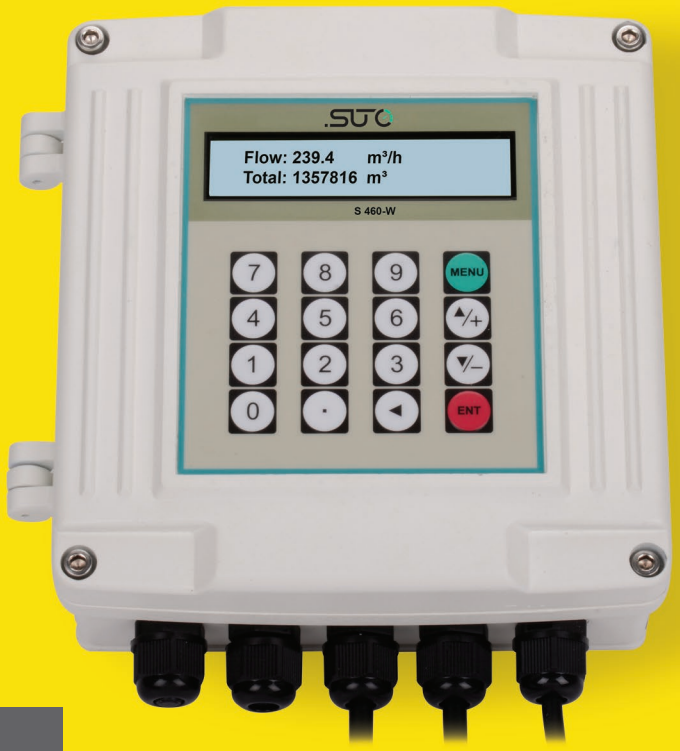
ULTRASONIC FLOW METER
S460



Measure liquid flow and consumption



S460 FEATURES

TRANSIT TIME CORRELATION TECHNIQUE

SENSOR
PT100, 3wire

PORTABLE
Connectable to S551

STATIONARY
Connectable to S330 / S331 series

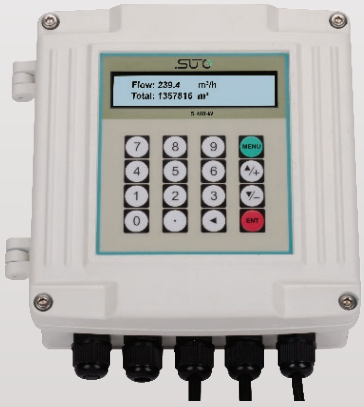
Measurement of liquid flows and consumption such as:

- 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

S460 OPERATION PRINCIPLE

The S460 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 S330 / S331 series of displays and data loggers where the portable model is connectable to the S551.

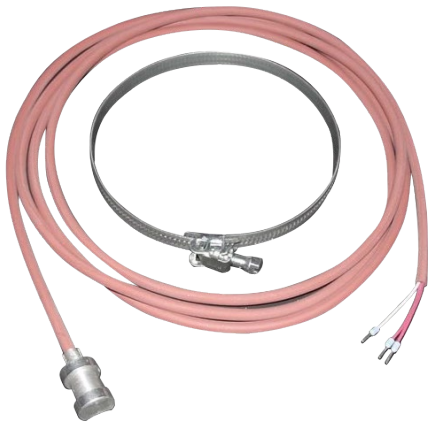


S460-W, wall mountable controller

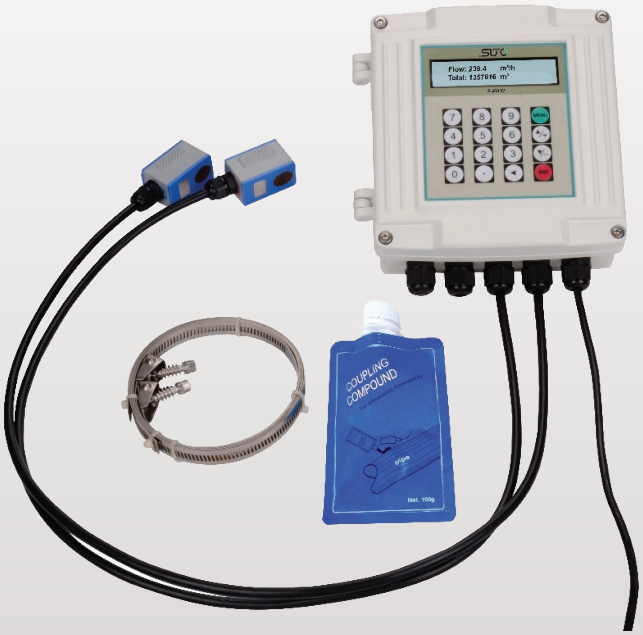
S460 TECHNICAL DATA

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)
Operating temperature	Controller: -20 ... +60°C Transducer: -30 ... +90°C (Standard) -30 ... +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

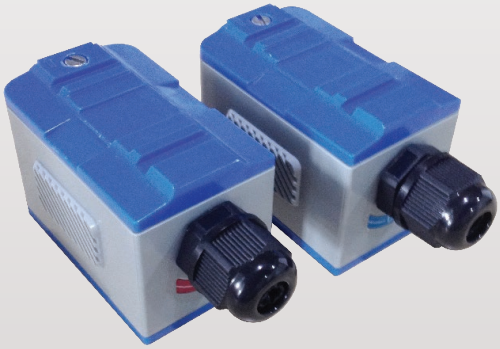
To calculate the flow range please use this formula:
$Q=Di^2 * 0.01979$
Q [m3/h]
Di [mm]



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



Complete wall mountable set: S460-W + transducer pair
(metal stretcher and coupling agent are included in S460-W)



Ultrasonic transducer pair, screw terminals

S460 ORDERING

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

Visit our website or e-mail us:
www.suto-itec.com
sales@suto-itec.com

	**Ultrasonic flow meter controller, wall mountable**	
	D554 0074	S460-W, ultrasonic flow meter controller, wall mountable, including 5 m connection cable to transducers, metal stretcher and coupling agent
	**Ultrasonic transducer pair**	
	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
	**Portable ultrasonic controller for liquid flow sensor**	
	P554 0070	S460-P, ultrasonic controller for liquid flow sensor, connectable to S551, including 5 m connection cable to S551 and to transducers, metal stretcher and coupling agent
 Optional	**Ultrasonic transducer pair**	
	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)
	**Sensor cable, 6 poles**	
	A553 0121	Sensor cable, 6 poles, AWG22, 7.5 mm outer diameter, w/ shielding, black [per meter] (for connection to S330 / S331 displays)
	**Coupling agent**	
	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)