

SonoTT™ Clamp-On Transducer



- For non-invasive flow measurement of liquids
- For use with flexible tubing
- Different transducers for different tube sizes
- Customer specific calibration
- Excellent accuracy and stability
- Can be surface disinfected

01 Technical Specification

Size (HxWxD)	25 x 33 x 45 mm
Weight	100 g
Housing material	Plastic
Safety class (IEC60601-1)	BF
IP-Code	IPX4
Cable length	2.9 m
Compatible flow meters	SonoTT™ FlowMeter, SonoTT™ FlowComputer, SonoTT™ flow boards
Connector plug	Depending on flow meter, please specify when ordering
Recommended tube type	Flexible, non-reinforced tubing, e.g. silicone, PVC
Type of liquid medium	Water, purified water, blood and most dialysis-, infusion and irrigation solutions
Temperature of liquid medium	4 to 50 °C (40 to 122 °F)

02 Accuracy and Drift with Compatible Flowmeters

Flow Offset Drift	Max. 0.03 l/min within 2 hours
Flow Range	Accuracy
Flow value ≤ 1.0 l/min	± 0.07 l/min ± Flow offset drift
Flow value > 1.0 l/min	± 7% of reading ± Flow offset drift

03 Transducer Size and Flow Measurement Range

Type (depending on flow meter)	Maximum Flow Range (depending on medium, bi-directional)	Tube Size ID (inner diameter), WT (wall thickness), OD (outer diameter)					
		ID [in]	WT [in]	OD [in]	ID [mm]	WT [mm]	OD [mm]
SCT/ CT 3/16 x 1/16"	up to ± 6	3/16	1/16	5/16	4.76	1.59	7.94
SCT/ CT 6.8 mm	up to ± 6	11/64	3/64	17/64	4.30	1.25	6.75
SCT/ CT 1/4 x 1/16"	up to ± 8	1/4	1/6	3/8	6.35	1.59	9.52
SCT/ CT 1/4 x 3/32"	up to ± 8	1/4	3/32	7/16	6.35	2.38	11.11
SCT/ CT 3/8 x 1/16"	up to ± 10	3/8	1/16	1/2	9.53	1.59	12.70
SCT/ CT 3/8 x 3/32"	up to ± 10	3/8	3/32	9/16	9.53	2.38	14.29
SCT/ CT 1/2 x 3/32"	up to ± 20	1/2	3/32	9/16	12.7	2.38	17.46

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04 Calibration

Factory calibrated to customer specific tubing, liquid medium and temperature of liquid medium. Typical medical calibration is performed for blood at 37 °C (98.6 °F) with Raumedic™-ECC–Blood-Line Tubing. Up to seven (7) calibration tables can be programmed in each transducer's electronic storage. Factory recalibration services are available on request.

05 Ambient Conditions

Air pressure	70 to 106 kPa
Operating temperature range	10 to 40 °C (50 to 104 °F)
Storage temperature range	-20 to 45 °C (-4 to 113 °F)
Transport temperature range	-20 to 55 °C (-4 to 131 °F)
Humidity operation	30 to 75 % (non-condensing)
Humidity storage and transport	10 to 96 %