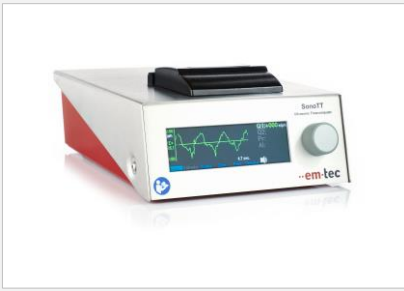


# SonoTT™ FlowComputer



- Transit-time ultrasound flow meter with a bright and easy-to-read TFT graphics display
- Easy one-knob operation of all functions
- Flow volume measurement mode
- One or two flow channels
- Optional pressure measurement channel
- Optional analog channel
- Optional integrated printer
- High and low limits settable on all channels
- RS-232 Interface to PCs

## 01 Technical Specification

Size (HxWxD)	90 x 210 x 293 mm
Weight	Max. 4 kg
Housing material	Stainless steel
Safety class (IEC60601-1)	Class I equipment
IP-Code	IPX1 (drip-proof)
Supply voltage	100-240 VAC / 50-60 Hz
Power consumption	Max. 40 VA
Fuses	250 V; 1.6 AL; Typ T; 5 x 20 mm
Mains power cord	Type EU, 2 m included; Type USA North American 10 Amp hospital grade cordset w/C13, l = 2 m; others on request
Compatible flow sensors	SonoTT™ Clamp-On Transducer; type CT

## 02 Interfaces

Interface types	RS-232; connect only devices tested according to IEC60601 or IEC60950
Sensor connector type	15-pin D-Sub-socket
Flow display type	TFT graphics display

## 03 User Interface

Bright and easy-to-read display. One-knob operation of all functions with an option for numeric or graphic display of real-time data. Acoustic informational alarm is possible on all channels. A device option is available with an integrated thermal printer.

## 04 Accuracy\*

Max. flow measurement range	± 32.0 l/min
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\*Depending on calibration and type of SonoTT™ Clamp-On Transducer

## 05 Resolution

Flow value ≤ ± 999 ml/min	1 ml/min
± 1.00 ≤ Flow value ≤ ± 9.99 l/min	10 ml/min
± 10.0 ≤ Flow value ≤ ± 32 l/min	100 ml/min

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## 06 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 %

## 07 Optional Systems

<b>Analog In [AI]</b>	
Device connector	2-pin socket type REDEL PKG, M0.2GLV
Input voltage range	± 4.00 V
Resolution	0.01 V
Accuracy	± 3 %
Connection limitations	Only connect devices tested according to IEC60601

<b>Pressure In [PR]</b>	
Safety class	Type CF applied part, defibrillation-proof
Device connector	5-pin socket type REDEL PKG, M0.5 GL V
Input pressure range	-250 mmHg to +350 mmHg; depending on transducer type
Resolution	1 mmHg
Accuracy	± 3 %; depending on transducer type
Measurement principle	Resistance bridge
Required sensitivity	5 µV/V/mmHg
Internal resistance	In the range of 200 to 3000 Ohm

<b>Built-in Printer</b>	
Printer type	EPM203-MRS
Print method	Thermo printer, 8 dots/mm
Print width	48 mm

<b>Recommended Paper</b>	
Paper type	EM037
Durability	25 years
Roll size	Diameter: 30 mm; width: 57 mm
Length	Approx. 10 m

### Second Flow Measurement Channel

If at the same time there should be:

- one SonoTT™ Clamp-On-Transducer and one Vascular Probe or
- two SonoTT™ Clamp-On-Transducers or
- two SonoTT™ Vascular Probes

A second flow measuring channel must be added. The flow measurement channels 1 and 2 are identical in design and performance.