

Microsurgical Flowprobes

Transonic® Microsurgical Flowprobes work with HT350- and HT360-Series Flowmeters to measure volume flow in vessels or grafts from 0.4 to 3.7 mm diameter. Flow measurement in these vessels during microvascular procedures can guide better surgical decisions and give the surgeon the opportunity to correct otherwise undetectable flow restrictions before closing the patient.



Fig. 1: Ultrasonic sensing windows of Microvascular Flowprobe Series.



Fig. 2: Side-by-side comparison of a 0.7 mm Microvascular Flowprobe with a tip of a 25 gauge needle.



Fig. 3: 2 mm Microvascular Flowprobe showing handle and flexible probe neck for easy positioning of the Flowprobe around a vessel.



Fig. 4: Microvascular Flowprobe Series including 0.7 mm, 1 mm, 1.5 mm, 2 mm, 3 mm Flowprobes.

VESSEL SIZES FOR MICROVASCULAR FLOWPROBES		
PROBE SIZE (mm)	VESSEL OD (mm)	MAXIMUM FLOW (ml/min)
0.7	0.4 - 0.7	50
1	0.7 - 1.2	100
1.5	1.0 - 1.5	200
2	1.5 - 2.7	500
3	2.5 - 3.7	1000

The AureFlo®

Transonic's AureFlo system and Microvascular Flowprobes use transit-time ultrasound technology to measure volume flow in micro-vessels with unprecedented accuracy and resolution. Even lymph flows can be measured directly.

Used with single or dual-channel Optima Flowmeters, the AureFlo's unprecedented resolution is accompanied by lower offsets, and higher low-flow accuracy.

The AureFlo features an easy-to-read, high contrast display on a touch screen PC. The display can be projected to an OR monitor.

Data entry to capture, store and retrieve flow information is quick and easy. Operative notes can be easily augmented and 8-second snapshots of recorded measurements can be reviewed from a remote location. Waveforms for reference, analyzing, teaching or, for the patient record, can be selected and printed.

The AureFlo's small footprint allows for easy mobility within the OR. A stable cart securely holds the system components and a convenient writing surface and storage drawer is also provided.

The AureFlo's immediate, quantitative flow measurements provide unsurpassed accuracy and resolution to ensure vessel patency in micro-vessels.

The AureFlo® system accommodates Transonic's new Microsurgical Flowprobes to continuously measure, display, record and document absolute volume flow and other derived parameters. In the photo on the right, the AureFlo is shown with a HT354 single-channel Optima Flowmeter, and displays the flow profile of a popliteal artery.



Transonic Systems Inc. is a global manufacturer of innovative biomedical measurement equipment. Founded in 1983, Transonic sells "gold standard" transit-time ultrasound flowmeters and monitors for surgical, hemodialysis, pediatric critical care, perfusion, interventional radiology and research applications. In addition, Transonic provides pressure and pressure volume systems, laser Doppler flowmeters and telemetry systems.

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