



Transonic Research Flowmeter Models

Features & Options Comparison

	400-Series	T106/T206	T110/T110R
Product Platform	Modular - open Architecture	Stand alone Flowmeter	Stand alone Flowmeter
Number of Flow Measurement Channels	T402-up to 2 channels T403-up to 3 channels Modules may be installed when required	T106 - 1 flow channel T206 - 2 flow channels	Single (1) channel only
Life Cycle	State of the Art	Obsoleted 2002	Obsoleted 2002
Frequency Range	450 KHz - 14.4 MHz (14.4 required for mouse nanoprobes)	600 KHz - 7.2 MHz	600 KHz - 3.2 MHz
Filters	0.1, 10, 40, 160 Hz (160 Hz required for mouse measurements)	0.1, 10, 30, 100 Hz	0.1, 10, 30, 100 Hz
Signals Outputs Available for Recording	<ul style="list-style-type: none"> • Pulsatile flow • Mean flow • Received Signal (Quality of acoustic signal) • Phase (Experimental application) • Additional measurement capability will be availability in future modules. 	<ul style="list-style-type: none"> • Pulsatile flow • Mean flow • Additional: Pressure previously available via computer interface 	<ul style="list-style-type: none"> • Pulsatile flow • Mean flow
Software	Analog signal compatible with most packages Future TEAM21 package (not yet available)	Analog signal compatible with most packages Optional Computer Interface & Windaq software	Analog signal compatible with most packages No direct software supported
Flowprobe Style Compatibility	Different modules required for vascular and tubing probes TS420 - Operates Perivascular Flowprobes TS410 - Operates Tubing Flowsensors	Operates perivascular and older style tubing flowsensors	Operates only XL-Sterile Tubing Flowsensors



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Perivascular Flowprobes

	400-Series	T106/T206	T110/T110R
Perivascular Flowprobes	Nanoprobes for use with TS420 Module <ul style="list-style-type: none"> • 0.5 mm & 0.7 mm • Tiny size • Impantable & acute • Full scale: <ul style="list-style-type: none"> 0.5PS = 1.5ml/min/volt 0.7PS = 2.5ml/min/volt 	V-probes <ul style="list-style-type: none"> • 0.5 mm & 0.7 mm • Large mass vessel diameter; wide reflector, requires more coupling, vessel dissection. • Acute use only • Full scale: <ul style="list-style-type: none"> 0.5VB = 2.5ml/min/volt 0.7VB = 5ml/min/volt 	None available
	Precision PS-series for use with TS420 Module <ul style="list-style-type: none"> • +/-10% Absolute accuracy • +/-2% Relative accuracy • Offset reduced by 33% • 0.5 - 24 mm 	R & S-series pobes <ul style="list-style-type: none"> • +/-10-15% Absolute accuracy • +/-2% Relative accuracy • Low offset • 1 - 24 mm 	None available
	Precision Cardiac Output PAX-probes for use with TS420 Module <ul style="list-style-type: none"> • 8 - 36 mm • Independent transducer pairs for improved acoustic monitoring • Standard repair possible 	A-Series Cardiac Output probes <ul style="list-style-type: none"> • 8 - 36 mm • Transducer pairs balanced by resistor; require custom treatment for repair 	None available
Flometer Features for Perivascular Flowprobes	<ul style="list-style-type: none"> • Digital display of ml or L/min • Pulsatile & mean flow output • Analog meter displays flow & signal quality • Signal quality bar indicator • Easy plug-in calibration keys for chronic probes • One-push zero offset adjust 	<ul style="list-style-type: none"> • Digital display of ml or L/min • Pulsatile & mean flow output • Analog meter displays flow & signal quality • Calibration key in extension cable socket • Zero offset dial 	None available



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Tubing Flowsensors

	400-Series	T106/T206	T110/T110R
Inline Tubing Flowsensors	Precision PXN-Series for use with TS410 Module 4 transducers with X-illumination <ul style="list-style-type: none"> • High resolution • Zero offset; <1% full scale • Smooth cylindrical flow channel will not alter flow profile • Accurate for turbulent flow profiles • Dynamic flow range 	N-Series 2 transducers <ul style="list-style-type: none"> • Limited flow range • Linearity compromised above maximum specified flow • Non-uniform, square & angled interior flow channel • Sensitive to turbulence 	None available
Sterile Tubing Flowsensors	Precision PXL-Series for use with TS410 Module 4 transducers with X-illumination <ul style="list-style-type: none"> • High resolution • Low zero offset • Accurate for turbulent flow profiles • Able to measure through more tubing types (pvc) • Plastic sensor housing 	C-Series 2 transducers <ul style="list-style-type: none"> • Signal degraded with some tubing plastics (pvc) • Tubing limitations • High offset; zero drift • Sensitive to turbulence • Aluminum sensor housing 	XL-Series 4 transducers with X-illumination <ul style="list-style-type: none"> • Accurate for turbulent flow profiles • More noise in signal
Flowmeter Features for Tubing	<ul style="list-style-type: none"> • Program sensors for multiple calibrations • User gain adjust feature • One-push zero offset adjust • Invert flow mode • Low flow scale 	<ul style="list-style-type: none"> • One calibration • Dial zero adjust 	<ul style="list-style-type: none"> • Program sensors for multiple calibrations • User gain adjust feature • Zero offset accessible only in program mode • No invert flow mode



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