

BENCH-TOP PULSED DOPPLER FLOWMETER

The classical method of determining blood flow velocity in experimental preparations. Offers the lightest, smallest transducers of any technique available for this measurement.

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Part No.	Item
100-20	Benchtop Pulsed Doppler Flowmeter 20 MHz Measures blood flow velocity in vessels using Doppler ultrasound technology. Features a patented noise-reduction circuit, LED bargraph display and a true end-to-end calibration design. <i>Operates at 20 MHz. Recommended for vessel diameters up to 5mm or 20 Mhz Doppler catheters.</i>
100-10	Benchtop Pulsed Doppler Flowmeter 10 MHz Measures blood flow velocity in vessels using Doppler ultrasound technology. Features a patented noise-reduction circuit, LED bargraph display and a true end-to-end calibration design. <i>Operates at 10 MHz. Recommended for vessel diameters between 5-10mm.</i>
100-1953	Clinical Accessory Cable Adapts NuMed Catheter to 100-20 Clinical flowmeter.
100-1950	Animal Accessory Cable Adapts Doppler flow probes to 100-20 and 100-10 flowmeters.

SYSTEM 6 PHYSIOLOGICAL MONITORING SYSTEM

System 6 is a modular instrument which permits the simultaneous measurement of several physiological variables in experimental animals.

This versatile system was designed to be easily reconfigured or upgraded by the user to meet a wide range of experimental protocols. For complete system control, all display and selector switches are located on the mainframe front panel.

Part No.	Item
200-200	Mainframe Chassis All timing, synchronization circuits and power supplies are built into the chassis which holds up to six modules. The backpanel provides a patchfield for signal outputs/inputs to recorders, an oscilloscope connection, and an NMR spectroscopy connection.
200-199	Expansion Chassis Power supplies are built into the chassis which holds up to six modules which do not require the timing signals (204, 206 and 207 modules). The backpanel provides a patchfield for signal outputs/inputs to recorders.
200-198	TwinPak Chassis that holds one or two modules which do not require the timing signals (204, 206, 207 and 257 modules). Supplies all required power for modules. The backpanel provides a patchfield for signal outputs/inputs to recorders.
200-201	Sonomicrometer Module Uses transit time ultrasound technology to measure cardiac dimensions such as wall thickness, muscle length, heart diameter and other soft tissue dimensions related to muscle function.
200-202-10	Pulsed Doppler Flowmeter Module, 10MHz or 20Mhz
200-203-20	Measures blood flow velocity in vessels using Doppler ultrasound technology. Features a patented noise-reduction circuit, LED bargraph display and a true end-to-end calibration design. 10 MHz unit recommended for vessel diameters between 5-10mm. 20 MHz recommended for vessel diameters 0.8mm up to 5mm.

SYSTEM 6 (continued)

Part No.	Item
200-203-10	Doppler Displacement Module, 10Mhz or 20Mhz
200-203-20	This unit measures myocardial wall thickening using a single epicardial path transducer. This technique minimizes trauma to underlying layers of the myocardium. Integrator can be reset manually or at fixed time intervals, by transducer-sensed electrogram or external trigger signal. Use 10 for large hearts and 20 MHz for smaller hearts.
200-204	Dual Pressure Amplifier Module Measures intravascular blood pressure using Konigsberg implantable pressure transducers, pressure catheters, and extracorporeal gauges. Two independent amplifiers provide both instantaneous and mean output signals. Contains internal reference calibration bridge.
200-205	Pressure & dP/dt Module Measures blood pressure and its time derivative from a single transducer. Will operate with Konigsberg implantable pressure transducers, pressure catheters, and extracorporeal gauges. Features internal reference calibration bridge and dP/dt calibration.
200-206	Active Redirection Transit Time Flow Module Operates on transit time principles to measure cardiac output (volume blood flow) using Triton's implantable X-probes and C-probes. For use 306 & 307 series probes. (See page 18 for probe listings)
200-210	Dual Flowmeter (Standalone) -A, -B, or -C This stand-alone bench top unit allows you to mix and match the flow meters of your choice: - A = two Large flowmeters (200-206) , -B = one Largeflowmeter (200-206)+ one Small flowmeter (200-257), -C = two Small flowmeter (200-257). This unit includes external gating for NMR and external synchronization capabilities.
200-211	EKG This EKG unit monitors limb lead signals - leads I, II, III, aVR, aVL, and aVF, as selected by the front panel selector switch. The unit also has selectable baseline restoration time-constant and dual 'line frequency' notch filters (50/60Hz & 100/120Hz).
200-257	Small Vessel Transit Time Flow Module Operates on transit time principles to measure volume blood flow using Triton Series 367 implantable probes. (See page 19 for probe information).

CBI PHYSIOLOGICAL MONITORING SYSTEM

CBI is a modular instrument family which permits the simultaneous measurement of several physiological variables in experimental animals. These instruments are based on the Hartley, Valpey-Fisher, Crystal Biotech instrument family.

The modules are based on the proven System 6 designs and are completely compatible with the other CBI types. The Volume flowmeters are based on Triton's patented designs which have established new standards for long term chronic flow measurement.

The CBI system uses Triton's standard System 6 cables and utilizes all the same transducers.

Part No.	Item
300-100	3-Channel Mainframe Chassis This is a mainframe for 3 instrument modules in addition to Doppler and Length Master modules. The chassis contains power supplies, speaker and back-panel input/output cable connections. (100-240vac)
300-101	Doppler Master Module The Doppler Master is required for all uses of the 3 and 6 channel mainframes as it supplies all the oscillator and basic timing signals.
300-102	Length Master Module The Sonomicrometer Master module is required for either the 3 or 6 channel mainframes whenever a Sonomicrometer is being used.
300-198	2-Channel Mainframe Chassis This is a mainframe for 2 instrument modules. This chassis may be used with all modules except sonomicrometer modules. The chassis contains power supplies, speaker and back-panel input/output cable connections. (100-240vac)
300-200	6-Channel Mainframe Chassis This is a mainframe for 6 instrument modules in addition to Doppler and Sonomicrometer Master modules. The chassis contains power supplies, speaker and back-panel input/output cable connections. (100-240vac)

CBI Systems (continued)

Part No.	Item
300-201	Length Gauge 'Sonomicrometer' Module Uses transit time ultrasound technology to measure cardiac dimensions such as wall thickness, muscle length, heart diameter and other soft tissue dimensions related to muscle function. Works with 3-20 Mhz transducers.
300-202-10	High Velocity Doppler Flowmeter Module (10 or 20 MHz)
300-202-20	Measures blood flow velocity in vessels using Doppler ultrasound. Features a patented noise-reduction circuit, and a true end-to-end calibration derived from quartz crystal master clock.
	The 10Mhz units sample at 62.5kHz to minimize the chance of aliasing, while the 20Mhz units sample at 125kHz. The 20MHz units can be used on blood vessels up to 6mm, while the 10MHZ units can be used up to 12mm.
300-203-10	Single Crystal Displacement Module (10 or 20 MHz)
300-203-20	This module is used to measure ventricular thickening from a single epicardial transducer, thus eliminating the need for any intramyocardial crystals. Rather than tracking one layer, it measures thickening at a fixed depth from the epicardial surface as selected by the range gate delay. Thickening fraction is estimated by dividing the measured thickening (in mm) by the range gate depth (also in mm) which can be set to any depth from the subepicardium to the subendocardium. Although it doesn't measure absolute thickness, it is much easier to use than the two crystal method, and has been very useful in evaluating regional ventricular function in studies of ischemia and reperfusion. Resolution is 0.02 (0.01) mm with a maximum measurable thickening of 5 (2.5) mm at a maximum depth of 4 (1.2) cm at 10 (20) MHz.
300-204	Pressure & dP/dt Module Measures intravascular blood pressure using Konigsberg implantable pressure transducers, as well as all other pressure catheters, and extracorporeal gauges.
	Two independent amplifiers provide both instantaneous and mean output signals. Contains internal reference calibration bridge.
300-205	Pressure & dP/dt Module Measures blood pressure and its time derivative from a single transducer. Will operate with Konigsberg implantable pressure transducers, pressure catheters, and extracorporeal gauges. Features internal reference calibration bridge and dP/dt calibration.
300-206	Active Redirection Transit Time Flow Module Operates on transit time principles to measure cardiac output (volume blood flow) using Triton's implantable X-probes and C-probes. For use 306 series probes. (See page 18 & 19 for probe listings)

CBI Systems (continued)

Part No.	Item
300-211	EKG This EKG module monitors limb lead EKG signals - leads I, II, III, aVR, aVL, and aVF, selected by the front panel selector switch. The unit also has selectable baseline restoration time-constant and dual 'line frequency' notch-filters (50/60Hz & 100/120Hz).
300-257	Small Vessel Transit Time Flow Module Operates on transit time principles to measure volume blood flow using Triton Series 367 implantable probes. (See page 19 for probe information).

SYSTEM 6 - ART² Series 306 - Large Vessel Probes

These implantable probes designed for use with the Model 206 Transit Time Flow module. These probes are made from Ultem, a bio-compatible plastic and are built as a "two-half" design.

The cable is connected to the 'active side', while the 'passive side' is free. The two halves have alignment pins, but they must be tied together with umbilical tape or similar when implanted.

The probe sizes are based on the closest size in mm. The standard cable length is 40cm; other lengths are optional. The standard connectors are Triton's Ultem plastic 'skinbutton' and 'bullet'.

These implantable probes designed for use with the Model 206 Transit Time Flow module. These probes are made from Ultem, a bio-compatible plastic and are built as a "two-half" design.

These probes are based on one or more of Triton Technology's Active Redirection Transit Time patents. US patents 5,368,848 5,440,936 5,463,906

Part No.	Item
200-306-A	6 mm Active Redirection Flow Cuff (6.1mm)
200-306-B	7 mm Active Redirection Flow Cuff (7.2mm)
200-306-C	8 mm Active Redirection Flow Cuff (8.3mm)
200-306-D	9 mm Active Redirection Flow Cuff (9.4mm)
200-306-E	11 mm Active Redirection Flow Cuff (10.5mm)
200-306-F	12 mm Active Redirection Flow Cuff (11.6mm)
200-306-G	13 mm Active Redirection Flow Cuff (12.8mm)
200-306-H	14 mm Active Redirection Flow Cuff (14.6mm)
200-306-J	15 mm Active Redirection Flow Cuff (15.6mm)
200-306-K	17 mm Active Redirection Flow Cuff (17.3mm)
200-306-L	19 mm Active Redirection Flow Cuff (19.1mm)
200-306-M	21 mm Active Redirection Flow Cuff (21.1mm)
200-306-N	23 mm Active Redirection Flow Cuff (23.4mm)
200-306-P	26 mm Active Redirection Flow Cuff (25.8mm)
200-306-Q	29 mm Active Redirection Flow Cuff (28.6mm)

Typical part number: 200-306-Q-S-(60)

200-306-X-Y-(L)

X= size (i.e. Q)

Y= connector: S= Skin Button

B= Bullet

L= Length (cm) if other than 40 cm.

SYSTEM 6 - ARTT Series 307 - Large Vessel "C" Probes

The "C" Probes are similar to the 200-306 probes, except they are made as a single unit. The probe has a diagonal opening along the side which allows the the probe to be easily placed on a blood vessel as a single piece.

The probe derives it's name from the fact that it looks like the letters "C" as viewed along it's axis.

The probe sizes are based on the closest size in mm. The standard cable length is 40cm; other lengths are optional. The standard connectors are Triton's Ultem plastic "skinbutton" and "bullet".

These probes are based on one or more of Triton Technology's Active Redirection Transit Time patents. US patents 5,368,848 5,440,936 5,463,906

Part No.	Item
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200-307-G-12 mm ARTT C-shape Flow Cuff (11.6mm)

200-307-H-14 mm ARTT C-shape Flow Cuff (14.6mm)

200-307-J-Y15 mm ARTT C-shape Flow Cuff (15.6mm)

200-307-K-17 mm ARTT C-shape Flow Cuff (17.3mm)

200-307-L-19 mm ARTT C-shape Cuff (19.1mm)

200-307-M-21 mm ARTT C-shape Flow Cuff (21.1mm)

Typical part number: 200-307-Q-S-(60)

200-307-X-Y-(L)

X= size (i.e. Q)

Y= connector: S= Skin Button

B= Bullet

L= length (cm) if other than 40 cm.

SYSTEM 6 - ART² 367 Series - Small Vessel Probes

Implantable probes designed for use with the Model 257 Small Vessel Transit Time Flow module. The bodies are precision machined from Ultem plastic. The probe sizes are based on the closest size in mm. The standard cable length is 40 cm; other lengths are optional.

The standard connectors are Triton's Ultem plastic 'skinbutton' and 'bullet'.

Part No.	Item
200-367-1.1	1.3mm Active Redirection Flow Cuff
200-367-1.1	1.6 mm Active Redirection Flow Cuff
200-367-2.1	2.0 mm Active Redirection Flow Cuff
200-367-2.2	2.4 mm Active Redirection Flow Cuff
200-367-2.3	2.8 mm Active Redirection Flow Cuff
200-367-3.1	3.2 mm Active Redirection Flow Cuff
200-367-3.2	3.6 mm Active Redirection Flow Cuff
200-367-4.1	4.0 mm Active Redirection Flow Cuff
200-367-5.1	5.0 mm Active Redirection Flow Cuff
200-367-6.1	6.0 mm Active Redirection Flow Cuff

Typical part number: 200-367-Q-S-60

200-367-X-Y-(L)

X= size (i.e. Q)

Y= connector:

S= Skin Button

B= Bullet

L= length in cm if other than 40 cm.

SYSTEM 6 - ACCESSORIES

Part No.	Item
Figure O	Accessory Cable 2 meter shielded cable suitable for use with Doppler Probes and Sonomicrometer Transducers (2 required).
801228	126-Series Connector Used for Sonomicrometer 201 Module (2 per module), Doppler Flow 202 and Displacement 203 Modules (1 per module).
200-380	2 Meter Phone to BNC Cable Allows connection of analog output from System 6, Twin Pack or any 100 stand-alone Units to Cordat II or strip chart recorder.
200-388	Small ART² Accessory Cable - Triton Connects the model 200-257 Small Vessel Active Redirection Transit Time module to any of the Series 367 probes which have the Fischer connector. The cable is two meters in length.
200-398	Large ART² Accessory Cable - Triton Connects the model 200-206 Active Redirection Transit Time module to Series 306 probes with a Triton connector. Panel connector is a 3-pin Fischer. The cable is two meters in length.
200-1930-M	Millar Catheter Accessory Cable Connects the model 204 and 205 directly to the Millar catheter. The cable is three meters in length.
200-1930-U	Unterminated Pressure Accessory Cable Connects to the model 204 and 205. The cable is three meters in length.
200-1140-S	Sync Chip Sets, Call for others <ul style="list-style-type: none">-06 Biotronix 610-05 Carolina 501-04 Sp-220X-03 Statham/Gould-02 Transonic

SONOMICROMETER TRANSDUCERS

High-quality premium piezoelectric transducers come in either singles or pairs. Custom orders are available. -DL means double lens option where indicated.

*Transducers are sealed with casting resin for chronic implants;

*All are lensed on one side and resin sealed on the other side (except VD5 and -DL).

*Stainless steel leads are insulated with clear Teflon.

*Copper leads are silver-plated for chronic implants and covered with color-coated PVC insulation.

A \$10 additional charge applies to non-standard units.

Part No.	Item
CY 5-1	Cylindrical Wide Angle Transducer-Single 5 MHz, 3-30mm typical range, 2.5mm diameter, 20cm stainless steel plus 70cm copper lead, cylindrical crystal.
CY 5-2	Cylindrical Wide Angle Transducer-Pair 5 MHz, 3-30mm typical range, 2.5mm diameter, 20cm stainless steel plus 70cm copper lead, cylindrical crystal.
ED 3-1	External Ventricular Diameter Transducer-Single 3 MHz, 20-120mm typical range, 6mm diameter, 90cm copper lead, Styrofoam backing, Dacron patch.
ED 3-2	External Ventricular Diameter Transducer-Pair 3 MHz, 20-120mm typical range, 6mm diameter, 90cm copper lead, Styrofoam backing, Dacron patch.
EP 5-1	Epicardial Patch Transducer-Single 5 MHz, 3-30mm typical range, 6mm diameter, 90cm copper lead, Styrofoam backing, Dacron patch.
EP 5-2	Epicardial Patch Transducer-Pair 5 MHz, 3-30mm typical range, 6mm diameter, 90cm copper lead, Styrofoam backing, Dacron patch.
HE 3-1	mini-Hemispherical Wide Angle Transducer-Single 3 MHz, 20-120mm typical range, 5.4mm diameter, 90cm copper lead, 180 degree hemispherical crystal. (Silicon sheeting patch available.)
HE 3-2	mini-Hemispherical Wide Angle Transducer-Pair 3 MHz, 20-120mm typical range, 5.4mm diameter, 90cm copper lead, 180 degree hemispherical crystal. (Silicon sheeting patch available.)

SONOMICROMETER (continued)

Part No.	Item
HS 3-1	Hemispherical Sector Wide Angle-Single 3 MHz, 20-120mm typical range, 4mm diameter, 90cm copper lead, 90 degree hemispherical sector. (Silicon sheeting patch available.)
HS 3-2	Hemispherical Sector Wide Angle-Pair 3 MHz, 20-120mm typical range, 4mm diameter, 90cm copper lead, 90 degree hemispherical sector. (Silicon sheeting patch available.)
ID 3-1	Internal Ventricular Diameter Transducer-Single 3 MHz, 20-120mm typical range, 6mm diameter, 90cm copper lead, axial lead, perpendicular to plane of disk.
ID 3-2	Internal Ventricular Diameter Transducer-Pair 3 MHz, 20-120mm typical range, 6mm diameter, 90cm copper lead, axial lead, perpendicular to plane of disk.
JP 5-1	Segment Length Transducer-Single (DL-optional) Same as SL 5-2, but with a 90cm stainless steel, radial lead.
JP 5-2	Segment Length Transducer-Pair (DL-optional) Same as SL 5-2, but with a 90cm stainless steel, radial lead.
LAW 3-2	Long Axis Wide Angle Transducer Set 3 MHz, 20-120mm typical range, 90cm lead. Includes one HE3 (7mm diameter) and one ED3 (6mm diameter).
LAS 3-2	Long Axis Sector Wide Angle Transducer Set 3 MHz, 20-120mm typical range, 90cm lead. Includes one HS3 (4mm diameter) and one ED3 (6mm diameter).
SA 5-1	Small Animal Length Transducer-Single (DL-optional) 5 MHz, 0.5-10mm typical range, 1.0mm diameter, 20cm stainless steel plus 70cm copper lead, Teflon insertion tube, radial lead.
SA 5-2	Small Animal Length Transducer-Pair (DL-optional) 5 MHz, 0.5-10mm typical range, 1.0mm diameter, 20cm stainless steel plus 70cm copper lead, Teflon insertion tube, radial lead.
SID 5-1	Small Internal Ventricular Diameter Transducer-Single 5 MHz, 3-30mm typical range, 3.5mm diameter, 60cm stainless steel lead, axial lead, perpendicular to plane of disk.

SONOMICROMETER (continued)

Part No.	Item
SID 5-2	Small Internal Ventricular Diameter Transducer-Pair 5 MHz, 3-30mm typical range, 3.5mm diameter, 60cm stainless steel lead, axial lead, perpendicular to plane of disk.
SL 5-1	Segment Length Transducer-Single (DL-optional) 5 MHz, 3-30mm typical range, 2.5mm diameter, 20cm stainless steel plus 70cm copper lead, Teflon insertion tube, radial lead.
SL 5-2	Segment Length Transducer-Pair (DL-optional) 5 MHz, 3-30mm typical range, 2.5mm diameter, 20cm stainless steel plus 70cm copper lead, Teflon insertion tube, radial lead.
VD 5-1	Vessel Diameter Transducer-Single 5 MHz, 3-30mm typical range, 2.5mm diameter, 20cm stainless steel plus 70cm copper lead, resin-coated, unlensed, radial lead, with patch (P) or without suture patch (NP), please specify when ordering.
VD 5-2	Vessel Diameter Transducer-Pair 5 MHz, 3-30mm typical range, 2.5mm diameter, 20cm stainless steel plus 70cm copper lead, resin-coated, unlensed, radial lead, with patch (P) or without suture patch (NP), please specify when ordering.
WT 5-2	Ventricular Wall Thickness Transducer Set 5 MHz, 3-30mm typical range with 90cm lead. Includes one SL5 (2.5mm diameter) and one EP5 (6mm diameter).
Figure I	Pre-Focused Sonomicrometer Crystal-Pair 5MHz; Used for acute studies on vessels from 0.5mm-3mm for vessel diameter determination. Crystals are 1mm diameter.
Figure JB	Muscle Function Crystal-Pair Crystal mounted in the end of a cylinder of medical grade epoxy 1.0 mm in diameter by 10.0 mm in length. Teflon guide/handle allows the crystal to be inserted into stab wounds in muscle. Used in pairs to measure distance in muscle stretch.
Figure O	Accessory Cable 2 meter shielded cable suitable for use with Doppler Probes and Sonomicrometer (2 required) Transducers.

DOPPLER FLOW CUFFS

High-quality premium piezoelectric transducers for use with Triton's Doppler flow modules, Model 202, CBI 202 or Model 100 Doppler flowmeter. Probe lumens have been matched to proper operating frequencies. The standard cable length is 90cm.

All transducers come without a connector unless one is specified. The 4M connector is used to interface with Triton's products.

Part No.	Item
D-10-4.0	Silastic Tubing Flow Cuff Transducer 10 MHz, 4.0mm lumen, stainless leads, -N and -4M Connector Options
D-10-4.4	Silastic Tubing Flow Cuff Transducer 10 MHz, 4.4mm lumen, stainless leads, -N and -4M Connector Options
D-10-4.8	Silastic Tubing Flow Cuff Transducer 10 MHz, 4.8mm lumen, stainless leads, -N and -4M Connector Options
D-20-0.8	Silastic Tubing Flow Cuff Transducer 20 MHz, 0.8mm lumen, stainless leads, -N and -4M Connector Options
D-20-1.0	Silastic Tubing Flow Cuff Transducer 20 MHz, 1.0mm lumen, stainless leads, -N and -4M Connector Options
D-20-1.3	Silastic Tubing Flow Cuff Transducer 20 MHz, 1.3mm lumen, stainless leads, -N and -4M Connector Options
D-20-1.6	Silastic Tubing Flow Cuff Transducer 20 MHz, 1.6mm lumen, stainless leads, -N and -4M Connector Options
D-20-2.0	Silastic Tubing Flow Cuff Transducer 20 MHz, 2.0mm lumen, stainless leads, -N and -4M Connector Options
D-20-2.4	Silastic Tubing Flow Cuff Transducer 20 MHz, 2.4mm lumen, stainless leads, -N and -4M Connector Options
D-20-2.8	Silastic Tubing Flow Cuff Transducer 20 MHz, 2.8mm lumen, stainless leads, -N and -4M Connector Options

SEE CONNECTOR OPTION TABLE- PAGE 45

DOPPLER FLOW CUFFS (continued)

Part No.	Item
D-20-3.2	Silastic Tubing Flow Cuff Transducer 20 MHz, 3.2mm lumen, stainless leads, -N and -4M Connector Options
D-20-3.7	Silastic Tubing Flow Cuff Transducer 20 MHz, 3.7mm lumen, stainless leads, -N and -4M Connector Options
D-20-4.0	Silastic Tubing Flow Cuff Transducer 20 MHz, 4.0mm lumen, stainless leads, -N and -4M Connector Options
D-20-4.4	Silastic Tubing Flow Cuff Transducer 20 MHz, 4.4mm lumen, stainless leads, -N and -4M Connector Options
D-20-4.8	Silastic Tubing Flow Cuff Transducer 20 MHz, 2.4mm lumen, stainless leads, -N and -4M Connector Options
E-10-3.2	Silicone Flow Cuff Transducer 10 MHz, 4.0mm lumen, stainless leads, -N and -4M Connector Options
E-10-3.7	Silicone Flow Cuff Transducer 10 MHz, 4.0mm lumen, stainless leads, -N and -4M Connector Options
E-10-4.0	Silicone Flow Cuff Transducer 10 MHz, 4.0mm lumen, stainless leads, -N and -4M Connector Options
E-20-0.8	Silicone Flow Cuff Transducer 20 MHz, 0.8mm lumen, stainless leads, -N and -4M Connector Options N and 4M Connector Options
E-20-1.0	Silicone Flow Cuff Transducer 20 MHz, 1.0mm lumen, stainless leads, -N and -4M Connector Options
E-20-1.3	Silicone Flow Cuff Transducer 20 MHz, 1.3mm lumen, stainless leads, -N and -4M Connector Options
E-20-1.6	Silicone Flow Cuff Transducer 20 MHz, 1.6mm lumen, stainless leads, -N and -4M Connector Options
E-20-2.0	Silicone Flow Cuff Transducer 20 MHz, 2.0mm lumen, stainless leads, -N and -4M Connector Options
E-20-2.4	Silicone Flow Cuff Transducer 20 MHz, 2.4mm lumen, stainless leads, N and 4M Connector Options
E-20-2.8	Silicone Flow Cuff Transducer 20 MHz, 2.8mm lumen, stainless leads, N and 4M Connector Options

SEE CONNECTOR OPTION TABLE- PAGE 45

DOPPLER FLOW CUFFS (continued)

Part No.	Item
E-20-3.2	Silicone Flow Cuff Transducer 20 MHz, 3.2mm lumen, stainless leads, N and 4M Connector Options
E-20-3.7	Silicone Flow Cuff Transducer 20 MHz, 3.7mm lumen, stainless leads, N and 4M Connector Options
E-20-4.0	Silicone Flow Cuff Transducer 20 MHz, 4.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-3.2	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 3.2mm lumen, stainless leads, N and 4M Connector Options
ES-10-3.7	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 3.7mm lumen, stainless leads, N and 4M Connector Options
ES-10-4.0	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 4.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-5.0	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 5.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-6.0	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 6.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-7.0	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 7.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-8.0	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 8.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-9.0	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 9.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-10.0	Silicone Flow Cuff Transducer w/ Suture 10 MHz, 10.0mm lumen, stainless leads, N and 4M Connector Options

SEE CONNECTOR OPTION TABLE- PAGE 45

DOPPLER FLOW CUFFS (continued)

Part No.	Item
ES-10-11.0 Silicone Flow Cuff Transducer w/ Suture	10 MHz, 8.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-12.0 Silicone Flow Cuff Transducer w/ Suture	10 MHz, 9.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-13.0 Silicone Flow Cuff Transducer w/ Suture	10 MHz, 9.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-14.0 Silicone Flow Cuff Transducer w/ Suture	10 MHz, 9.0mm lumen, stainless leads, N and 4M Connector Options
ES-10-15.0 Silicone Flow Cuff Transducer w/ Suture	10 MHz, 9.0mm lumen, stainless leads, N and 4M Connector Options
ES-20-0.8 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 0.8mm lumen, stainless leads, N and 4M Connector Options
ES-20-1.0 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 1.0mm lumen, stainless leads, N and 4M Connector Options
ES-20-1.3 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 1.3mm lumen, stainless leads, N and 4M Connector Options
ES-20-1.6 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 1.6mm lumen, stainless leads, N and 4M Connector Options
ES-20-2.0 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 2.0mm lumen, stainless leads, N and 4M Connector Options
ES-20-2.4 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 2.4mm lumen, stainless leads, N and 4M Connector Options
ES-20-2.8 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 2.8mm lumen, stainless leads, N and 4M Connector Options
ES-20-3.2 Silicone Flow Cuff Transducer w/ Suture	20 MHz, 3.2mm lumen, stainless leads, N and 4M Connector Options

SEE CONNECTOR OPTION TABLE- PAGE 45

DOPPLER FLOW CUFFS (continued)

Part No.	Item
ES-20-3.7	Silicone Flow Cuff Transducer w/ Suture 20 MHz, 3.7mm lumen, stainless leads, N and 4M Connector Options
ES-20-4.0	Silicone Flow Cuff Transducer w/ Suture 20 MHz, 4.0mm lumen, stainless leads, N and 4M Connector Options
ES-20-5.0	Silicone Flow Cuff Transducer w/ Suture 20 MHz, 5.0mm lumen, stainless leads, N and 4M Connector Options
ES-20-6.0	Silicone Flow Cuff Transducer w/ Suture 20 MHz, 6.0mm lumen, stainless leads, N and 4M Connector Options
ES-20-7.0	Silicone Flow Cuff Transducer w/ Suture 20 MHz, 7.0mm lumen, stainless leads, N and 4M Connector Options
ES-20-8.0	Silicone Flow Cuff Transducer w/ Suture 20 MHz, 8.0mm lumen, stainless leads, N and 4M Connector Options

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SUCTION-ON DOPPLER FLOW PROBES

High-quality premium piezoelectric transducers are used with Triton and CBI Doppler flow modules and other Doppler flowmeters.

All transducers come without a connector unless one is specified. The 4M connector is used to interface with Triton's products.

Part No.	Item
A-10	Suction-on Transducer Available in 10 MHz, 26mm diameter, N and 4M Connector Options
A-20	Suction-on Transducer Available in 20 MHz, 26mm diameter, N and 4M Connector Options
B-10	Suction-on Transducer Available in 10 MHz, 7mm diameter, N and 4M Connector Options
B-20	Suction-on Transducer Available in 20 MHz, 7mm diameter, N and 4M Connector Options
C-10	Suction-on Transducer Available in 10 MHz, 3mm diameter, N and 4M Connector Options
C-20	Suction-on Transducer Available in 20 MHz, 3mm diameter, N and 4M Connector Options

SEE CONNECTOR OPTION TABLE- PAGE 45

EXTRA-VASCULAR & CORPOREAL DOPPLER FLOW TRANSDUCERS

Special purpose probes for use with Triton's Model 100 stand-alone flowmeter, Model 202 and CBI 202 Doppler flow modules.

Part No.	Item
F-10	Suture-Down Transducer 10 MHz, Stainless wire, Dacron suture patch, N and 4M Connector Options
F-20	Suture-Down Transducer 20 MHz, Stainless wire, Dacron suture patch, N and 4M Connector Options
G-10-3.4	Extracorporeal Flowthrough Transducer 10 MHz, 3.4mm lumen, stainless leads, N and 4M Connector Options
G-10-4.4	Extracorporeal Flowthrough Transducer 10 MHz, 4.4mm lumen, stainless leads, N and 4M Connector Options
G-20-1.8	Extracorporeal Flowthrough Transducer 20 MHz, 1.8mm lumen, stainless leads, N and 4M Connector Options
G-20-2.4	Extracorporeal Flowthrough Transducer 20 MHz, 2.4mm lumen, stainless leads, N and 4M Connector Options
G-20-3.4	Extracorporeal Flowthrough Transducer 20 MHz, 3.4mm lumen, stainless leads, N and 4M Connector Options
G-20-4.4	Extracorporeal Flowthrough Transducer 20 MHz, 4.4mm lumen, stainless leads, N and 4M Connector Options
H-10	Hand-held Extravascular Transducer 10 MHz, Coax cable, NF and 4M Connector Options
H-20	Hand-held Extravascular Transducer 20 MHz, Coax cable, N and 4M Connector Options

SEE CONNECTOR OPTION TABLE- PAGE 45

DOPPLER MICRO VESSEL NEEDLE & KNIFE EDGE TRANSDUCER

Special purpose probes for use with Triton's Model 100 stand-alone flowmeter, Model 202 Doppler and CBI 202 flow modules.

Part No.	Item
N-10-45	Micro Vessel Needle 10 MHz, 45° Transducer angle, stainless leads, N and 4M Connector Options
N-10-90	Micro Vessel Needle 10 MHz, 90° Transducer angle, stainless leads, N and 4M Connector Options
N-10-180	Micro Vessel Needle 10 MHz, 180° Transducer angle, stainless leads, N and 4M Connector Options
N-20-45	Micro Vessel Needle 20 MHz, 45° Transducer angle, stainless leads, N and 4M Connector Options
N-20-90	Micro Vessel Needle 20 MHz, 90° Transducer angle, stainless leads, N and 4M Connector Options
N-20-180	Micro Vessel Needle 20 MHz, 180° Transducer angle, stainless leads, N and 4M Connector Options
P-5	Knife Edge Transducer 5 MHz, stainless leads, N and 4M Connector Options
P-10	Knife Edge Transducer 10 MHz, stainless leads, N and 4M Connector Options
P-20	Knife Edge Transducer 20 MHz, stainless leads, N and 4M Connector Options

SEE CONNECTOR OPTION TABLE- PAGE 45

HARD EPOXY DOPPLER FLOW CUFFS

Molded epoxy flow cuffs, for use with Doppler Flowmeter Module 200-202-10 and -20 and all Crystal Biotech and Hartley-type flowmeters. Please specify suture (-S), cotton umbilical tape (-U) closure or no connector (-N).

Part No.	Item
HDP-10-4.0 Hard Epoxy Flow Cuff	10 MHz, 4.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-10-5.0 Hard Epoxy Flow Cuff	10 MHz, 5.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-10-6.0 Hard Epoxy Flow Cuff	10 MHz, 6.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-10-7.0 Hard Epoxy Flow Cuff	10 MHz, 7.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-10-8.0 Hard Epoxy Flow Cuff	10 MHz, 8.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-1.0 Hard Epoxy Flow Cuff	20 MHz, 1.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-1.5 Hard Epoxy Flow Cuff	20 MHz, 1.5mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-2.0 Hard Epoxy Flow Cuff	20 MHz, 2.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-2.5 Hard Epoxy Flow Cuff	20 MHz, 2.5mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-3.0 Hard Epoxy Flow Cuff	20 MHz, 3.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).

SEE CONNECTOR OPTION TABLE- PAGE 45

HARD EPOXY DOPPLER FLOW CUFFS (continued)

Part No.	Item
HDP-20-3. Hard Epoxy Flow Cuff	20 MHz, 3.5mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-4. Hard Epoxy Flow Cuff	20 MHz, 4.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-5. Hard Epoxy Flow Cuff	20 MHz, 5.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-6. Hard Epoxy Flow Cuff	20 MHz, 6.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-7. Hard Epoxy Flow Cuff	20 MHz, 7.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).
HDP-20-8. Hard Epoxy Flow Cuff	20 MHz, 8.0mm lumen, stainless leads, Specify Suture (S) or Umbilical (U) closure, No Connector (N).

SEE CONNECTOR OPTION TABLE- PAGE 45

EPICARDIAL DOPPLER DISPLACEMENT TRANSDUCERS

Single epicardial transducers used in conjunction with the Model 203 and Hartley-type Doppler Displacement modules to evaluate myocardial wall thickening fraction. Use suffix to specify: no attachment (-N), Dacron patch (-P) or Standard Cloverleaf wire loops (-C).

Part No.	Item
DMT-10-1. Doppler Displacement Transducer	10 MHz, 1.0 mm circular crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-10-2. Doppler Displacement Transducer	10 MHz, 2.0 mm square crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-10-3 Doppler Displacement Transducer	10 MHz, 3.0 mm circular crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-10-4 Doppler Displacement Transducer	10 MHz, 4.0 mm square crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-20-1. Doppler Displacement Transducer	20 MHz, 1.0 mm circular crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-20-2 Doppler Displacement Transducer	20 MHz, 2.0 mm square crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-20-3. Doppler Displacement Transducer	20 MHz, 3.0 mm circular crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-20-4. Doppler Displacement Transducer	20 MHz, 4.0 mm square crystal with stainless steel wire leads. Specify attachment with suffix: patch (-P), wire loops (-C) attachment or none (-N).
DMT-10-2. Chronic Implant Doppler Displacement Transducer	10 MHz, 2.5 mm square crystal with stainless steel wire leads. Probe specially encased in Silastic for chronic implantation.

SEE CONNECTOR OPTION TABLE- PAGE 45

CONNECTOR OPTIONS:

All transducers come without a connector unless one is specified. The 4M connector is used to interface with Triton's products. Pricing includes installation.

Part No.	Item
(-N)	NONE
(-4M)	4 PIN MALE (P/N 801228)