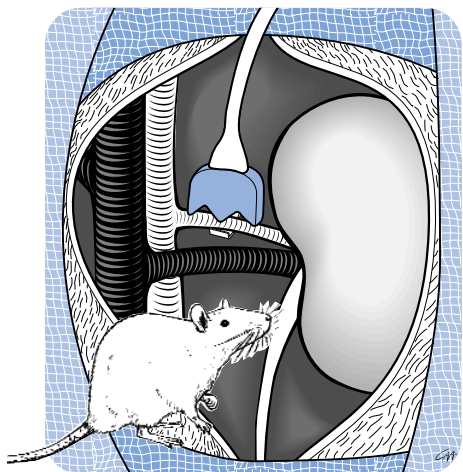


# Flowprobes: Rat & Rodent Models



## 2.5PSL

## 1PRB

## 0.7PSB

### ✓ Validated, Trusted, Referenced

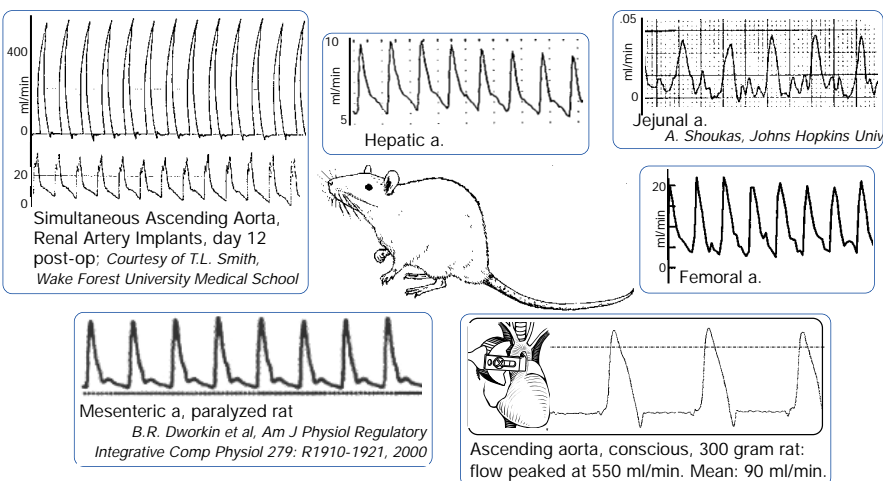
Cited in over 500 studies in rats and rodents, Transonic volume flowprobes are the established **Gold Standard for Volume Flow Measurements**.

### ✓ Precision PS-Series & PR-Series

Acute use and chronically implantable probes for rats for vessels 0.25 mm diameter and larger. Customize with small connectors for implant. Probes are compatible with electrical swivel devices and tethers for continuous monitoring.

### ✓ Real-time Volume Flowprobes

For numerous applications including cardiac output and cardiovascular dynamics, renal hypertension, carotid thrombosis and stroke models, hemorrhagic shock, hepatic ischemic/reperfusion, portal hypertension and hindlimb studies.



## SPECIFICATIONS & ACCESSORIES FOR RAT APPLICATIONS



PRECISION PROBE SERIES	VESSEL OD (mm) MC-PROBES chronic application	VESSEL OD (mm) MA-PROBES acute application	BIDIRECTIONAL FLOW (ml/min)			ACCURACY (%)			ULTRASOUND Frequency (MHz)	
			Resolution	Scale Settings Low Flow	Scale Settings Normal Flow	Maximum Range	Zero Offset	Absolute Accuracy		Relative Accuracy
1PR	0.7 - 1.0	0.7 - 1.2	0.05	5	20	100	± 0.2	± 10	± 2	7.2
1.5PR	1.2 - 1.5	1.2 - 1.5	0.075	10	40	200	± 0.4	± 10	± 2	4.8
2 PS	1.3 - 1.8	1.2 - 2.0	0.1	25	100	500	± 1	± 10	± 2	3.6
2.5PS	1.5 - 2.4	1.8 - 2.5	0.1	25	100	500	± 1	± 10	± 2	3.6
3 PS	2.4 - 3.4	2.5 - 3.7	0.4	50	200	1 L	± 2	± 10	± 2	3.6

See mouse probe specs for 0.5 & 0.7 mm probes.

### PRECISION PROBES — 400-SERIES FLOWMETERS

**MA- prefix:** standard acute configuration; maximum cable length, CRA10 connector, acute calibration

**MC- prefix:** custom or chronic configuration; customer specifies cable length, connector, calibration option, MRI

#### PROBE CABLE ORIENTATION

**“Back”** - perpendicular to vessel; **“Side”** - parallel to vessel  
**“Lateral”** - for ascending aorta via thoracotomy

**PROBE CABLE LENGTHS:** 2PS, 2.5PS, 3PS: 1 meter cable  
0.5PS, 0.7PS, 1PR, 1.5PR: 60 cm cable

### CONNECTORS

**Acute:** CRA10 10-pin Redel connector (15 mm diameter)

**Chronic:** 4-pin with calibration key

CA4B micro-connector (4.2 mm diameter)

CA4S micro-connector (4.2 mm diameter)

CM4B with cap (8 mm diameter)

CM4S with cap (8 mm diameter)

### CUFFS (convert CA4 or CM4 connectors to skin buttons)

**for CA4:** Silicone Flange style, single AAPC103  
Delrin Flange with set screw, AAPC105

**for CM4:** Silicone Flange style, single AAPC102  
Delrin Flange with set screw, AAPC104  
Silicone Cone style, double AAPC101

### EXTENSION CABLES

CRA10-S-CRA10: 10-pin acute, standard length, 1.25 meter

CM4-S-CRA10: 4-pin conversion w/spring, standard 1.8 meter

CM4-M3-CRA10: 4-pin conversion w/ spring, 3 meter length

CA4-S-CRA10: 4-pin conversion, narrow gauge wire, standard 1.8 meter

### ACCESSORIES

**MESILENE MESH:** surgical mesh for implant stabilization

**SPRING TETHER:** MCS111 18" length, 5.5 mm diameter fits over CA4 connector and cable

**ELECTRICAL SWIVELS:** see website for recommendations & referral

### Transonic Blood Flow Mapping in the Rat (wgt. 250 - 350)

Ascending Aorta	2.5PS or 3PS
Abdominal Aorta	2PS
Pulmonary Artery	2PS
Carotid Artery	1PR, 0.7PS
Femoral Artery	0.5PS, 0.5V
Mesenteric Artery	1PR, 0.7PS
Renal Artery	1PR, 0.7PS
Portal Vein	1.5PR, 2PS
Hepatic	0.5PS
Vena Cava	2PS, 2.5PS

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