

730146 Transonic Transit Time Flowmeter Module (TTFM)

Full Description

The Transit Time Flowmeter (TTFM) is an ultrasonic Transit Time flowmeter for animal research. It incorporates a complete 1-channel Transonic® ultrasonic transit time flowmeter. It can be used either with in-line flow probes or perivascular probes from Transonic®.

An extensive selection of probes for vessel diameters from 0.25 to 36 mm are available for chronic and acute studies. The extracorporeal in-line-probes, ideal for isolated organ preparations, are available in sizes from 0.5 to 22.2 mm. The module features a built-in digital display for direct reading of mean flow and an analog instrument to show flow, signal quality and scale factors. The TTFM has mean and pulsatile outputs for recording, both can be used simultaneously.

Specifications

Specifications 730146	
Power Supply	5 V 0.6 A through connector from PLUGSYS bus system
PLUGSYS Width*	4 slot units
Signal Output	1. On front panel through BNC sockets ± 10 Volt FS, pulsatile and mean 2. Through bus connector to PLUGSYS measuring system (jumper selectable) ± 10 V FS, pulsatile and mean
Synchronization	For applications with two or more TTFM modules, synchronization output or input can be connected on PLUGSYS bus; selector on unit selects master or slave mode
Connector	DIN 41612, 96-pin VG
Digital Display	shows average flow rate in ml/min or l/min
Analog Display	For monitoring analog flow, quality of ultrasound signal and scale factors; analog display also shows flow signal in MEAS. Mode, signal quality in TEST mode and scale factors in CAL mode
Normal/Lowflow	Low flow scale selection for increased sensitivity (x4) on low flows
Zero Flow	Automatic zero adjustment by pressing button
MEAS/CAL/TEST	switch to select three modes: Measure/Calibration/Test
Zero/Scale	Delivers 0 flow and scale flow signal at output for calibrating connected recorder or data acquisition systems; scale factor depends on connected probe
Flow Direction	Can be inverted by switch polarity in case flow probe mounted in wrong direction
Low-Pass Filter	Three filter positions (100/30/10 Hz) for smoothing pulsatile output; 0.1 Hz fixed for mean output

Standard Transonic Flow Probes 2 to 2.5 mm (S-Series - J Reflector with Slide Cover)

Full Description

- Non-constrictive perivascular flowprobes
- For acute and chronic measurement of flow in arteries and veins
- large range of other vessel diameters from 500 μ m to 36 mm
- Probes for micro-measurements in mice or rats
- Probes with Dual-beam "X"-Pattern for ascending aorta flow measurement
- Inline Flowprobes for extracorporeal circuits (Isolated perfused organs)

These Transonic Flow Probes work exclusively with the TTFM Transit Time Flow Meter (73-0146). The TTFM Flow Meter requires a PLUGSYS case (Type 601, 603, or 609). Probes type R and S are available with back cable exit (in a right angle to the vessel) or with side cable exit (parallel to the vessel). Please note Cable Exit specification before ordering to ensure you receive the configuration you require. All are configured for acute use with the TTFM Transit Time Flow Meter and are calibrated for blood at 37°C.

A range of Accessories and special connectors for chronic applications are available, please call for information.

Specifications

Specifications	734068	734070
Vessel OD Acute	1.5 - 2.0mm	1.8 - 2.5mm
Resolution Metric	0.1ml/min	0.1ml/min
Range Sc Low Metric	25ml/min	25ml/min
Range Sc Normal Metric	100ml/min	100ml/min
Range Sc Maximum Metric	500ml/min	500ml/min
Probe Length Metric	8.7mm	8.7mm
Probe Width Metric	3.3mm	3.3mm
Cable Length Metric	1m	1m
Series	S-Series	S-Series
Probe Type	2PSB-HSE	2.5PSB-HSE
Cable Exit	Back	Back