

- Wire Myograph with four chambers allows the study of four vessels or tissue rings simultaneously
- Ideal for work requiring a higher throughput such as repetitive concentration-response curves
- Jaw and pin mounts facilitate the use of a mix of small ( $>30\ \mu\text{m}$ ) or larger ring segments ( $>450\ \mu\text{m}$ ), respectively
- Built-in electrical heating, electronic valves for simultaneous rapid removal of buffer



The Multi Wire Myograph System - 620M is the successor to our very popular 610M myograph system. This 4-channel multi myograph system is a highly sophisticated yet robust research instrument. It is an easy-to-use system for in vitro studies of small and large blood vessels, trachea or gut mounted as larger ring preparations. Each individual myograph unit, made of aluminium, has a centrally located stainless steel chamber. The tissue supports (jaws or pins) are then positioned in the chamber, where one side is attached to the force transducer and the other side is attached to a micrometer.

Each unit has individually controlled gas inflow and suction. Heating and connections for vacuum and gassing are in the myograph interface, permitting the preparations in all four chambers to be kept under physiological conditions ( $37^{\circ}\text{C}$ , and bubbled with a gas mixture of your choice). The interface also houses all the electronics, and micro-processor for calibration, the circuitry for analogue outputs, and an USB port for digital data acquisition using Labchart Pro and the DMT device enabler.

Following mounting and equilibration, passive length-tension relationships for the vessels are determined using a normalization procedure. This ensures reproducibility amongst the segments and between experiments. During actual experiments, the circumference of the vessel is kept constant. Compounds can be added directly to the chamber, and the vessels contractility and reactivity are measured under isometric conditions.

This myograph is highly suited for pharmacological investigations on vessel reactivity. Multiple 620M units, especially in combination with the Automatic Buffer Filler System - 625FS, can be conveniently arranged side-by-side. This makes the 620M an ideal system for work requiring a higher throughput, such as drug screening, concentration responses or experiments where individual testing of vessels in separate baths is necessary.



# MULTI WIRE MYOGRAPH SYSTEM - 620M

## CHAMBER:

Chamber volume (min - Jaw mount)	3.8 ml
Chamber volume (min - pin mount)	2.0 ml
Chamber(s)	4
Chamber material	Acid resistant stainless steel
Vessel size - jaw mount	>30 µm
Vessel size - pin mount	>450 µm
Vessel normalization	Manually
Micrometer resolution	0.01 mm
Mounting type	Jaws and pins

## TEMPERATURE:

Range	15.0 to 50.0 °C
Resolution	0.1 °C
Stability	±0.2 °C
Heating	Yes

## TRANSDUCER:

Output reading	mN or g
Range	±200/±400/±800/±1600 mN
Resolution	0.01 mN
Force calibration	Yes

## OUTPUT:

Data communication	USB 2.0
Analogue output channels	4
Analogue output range	±2.5 V

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