

- Wire Myograph with four chambers allows the study of four vessels or tissue rings simultaneously
- Automatic normalization procedure
- 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



Making it easier... the newly developed 4-channel system adds the ease of automating the normalization procedures so that calculations and preload tension is easily set. Following mounting and equilibration, passive length-tension relationships are determined by a standardized procedure. This allows the standardization of initial experimental conditions, an important consideration when examining pharmacological differences between vessels.

The DMT myograph system itself is a highly sophisticated research instruments that is ideal for any contractile study of smooth muscles. Once vessels are dissected, cleaned and mounted onto the four individual chambers, the segment are kept under physiological conditions.

The acid-resistant stainless steel chamber contains up to 8ml of physiological salt solution (PSS), where temperature is maintained via the built-in heating. Gas inflow is individually controlled and easily regulated by a needle valve.

Chamber covers helps maintain the temperature and buffer conditions, and compounds are added directly to the chamber through the cover. Vascular reactivity of the segment is measured under isometric conditions, through a highly sensitive and accurate transducer. The opposite side is attached to a precision micrometer, allowing control of the vessel circumference.

Drain of the PSS is easily done through a vacuum connection and the built-in manifold.

This DMT Myograph System is highly suited for pharmacological investigations on vessel reactivity. Multiple units, especially in combination with the Automatic Buffer Filler System - 625FS, can be conveniently arranged side-by-side.

This makes the DMT Myograph 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.



AUTOMATED MULTI MYOGRAPH SYSTEM - 630MA

CHAMBER:

Chamber volume (min - Jaw mount)	4 ml
Chamber volume (min - pin mount)	2.2 ml
Chamber(s)	4
Chamber material	Acid resistant stainless steel
Vessel size - jaw mount	>30 μ m
Vessel size - pin mount	>450 μ m
Vessel normalization	Automatically
Micrometer resolution	0.01 mm
Mounting type	Jaws and pins

TEMPERATURE:

Range	15.0 to 50.0 $^{\circ}$ C
Resolution	0.1 $^{\circ}$ C
Stability	\pm 0.2 $^{\circ}$ C
Heating	Yes

TRANSDUCER:

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

OUTPUT:

Data communication	USB 2.0
Analogue output channels	4
Analogue output range	\pm 2.5 V

