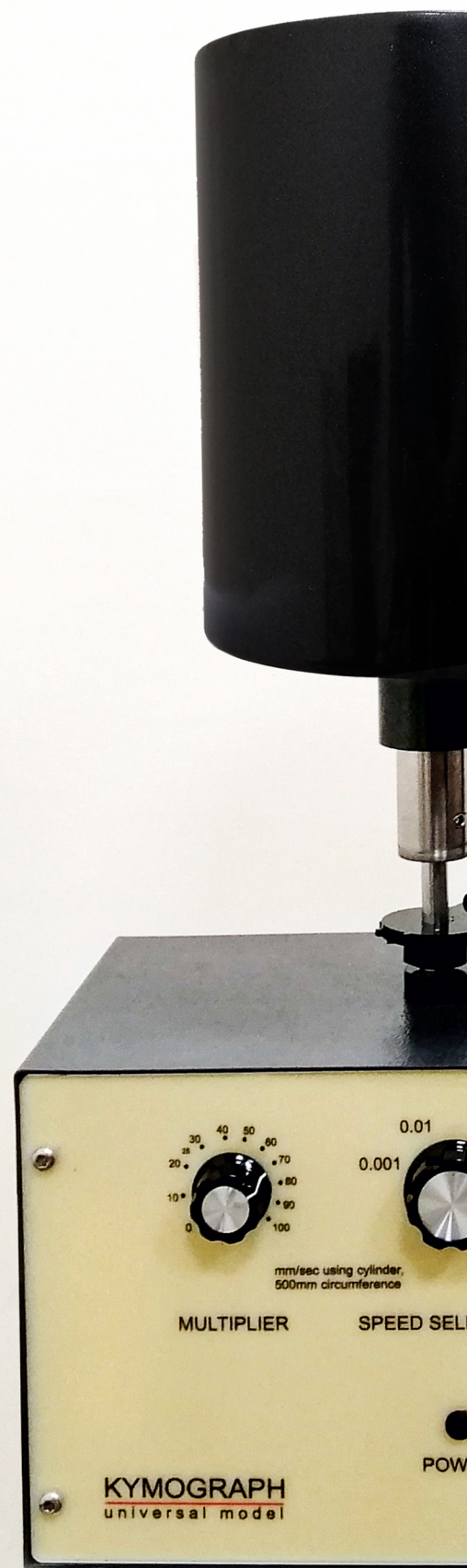
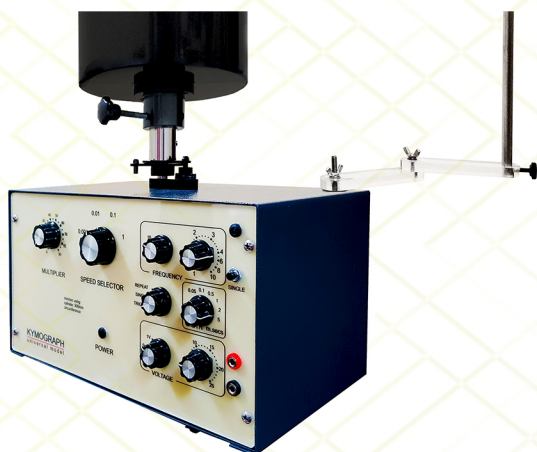


PHK 50-99/S

Universal Kymograph with Stimulator



Kymograph - universal model



Universal Kymograph Assembly

The Universal Kymograph has a spindle 290 x 26 mm OD for mounting a cylinder.

Cylinder made of high purity fiber glass lightweight and strong.

The speed range, dependent on circumference of cylinder, is infinitely variable by use of two controls.

More than 30 experiments that you can do in this assembly includes the universal kymograph with stimulator, some of the possible experiments include:

Frog Heart in Situ Preparation:

- Recording of cardiac activity
- Effect of stimulation of the heart (refractory period compensatory pause)
- Demonstration of conduction path (stimulus ligatures)
- Effects of stimulating the vagus nerve (cardiac inhibition)
- Effect of drugs³

Muscle-Nerve Preparation:

- Effect of stimulating voltage (simple muscle twitch)
- Effect of stimulation frequency (tetanus)
- Staircase phenomenon (Treppe)
- Effect of repeated stimulation (fatigue)
- Effects of drugs on muscles
- Effect of pre- and after-loading on muscle efficiency

Code No.: PHK 50-991/S Universal Kymograph Assembly, 110 VAC, 60 Hz
PHK 50-992/S Universal Kymograph Assembly, 230 VAC, 50 Hz

Distributor Area:

Universal Kymograph with Stimulator

The built-in square wave stimulator has a maximum output of 25 volts with less than 25 Ω impedance. The frequency range is continuously variable from 0 to 100 Hz. There are six preset pulse widths. The output has three selections: continuous, single pulse by push button, and external trigger via the contact arms on the Kymograph spindle. All the controls are located on the front panel.

Specifications:

Universal Kymograph

Speed Range	Infinitely variable from 0.01 to 100 mm/sec using 500 mm circumference cylinder.
Spindle Rotation	continuous
Contact Arms	Adjustable double contact Arms' the first one is fixed and the other is divided to 12 steps, "30° each", producing a pulse across the photo gate.
Writing Medium	ink
Cylinders	195H x 158mm OD (450g). included
Base Dimensions	505 x 305 x 180 mm (HxWxL)
Weight	6800 g

Stimulator

Output Voltage	0 to 24 V, continuously variable in 3 ranges, 0 to 250 mV, 0 to 2.5 V and 0 to 25 V
Sockets	2 x 4 mm sockets
Impedance	< 25 Ω at max. output current of 250 mA
Pulse Width	6 preset widths of 0.05, 0.1, 0.5, 1 2 and 5 ms
Frequency	0.1 to 100 Hz continuously variable in 3 ranges, 0.1 to 1.0 Hz, 1 to 10 Hz and 10 to 100 Hz
Mode Selection	Continuous, single and trigger via contact arms on spindle



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