Universal Kymographs

Universal Kymograph with Stimulator

The Kymograph is the same as described above. 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

Kymograph

Same as Universal Kymograph

Stimulator Specifications:

- Output Voltage: 0 to 25 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
- Cylinders: Not included, see next page
- Base Dimensions: 460 x 230 x 220 mm (18.1 x 9 x 8.7 in), H x W x D
- Weight: 7.5 kg (16.5 lb)

Catalog No. $ Product

- BS4 50-7368 Universal Kymograph with Stimulator, 115 VAC, 60 Hz
- BS4 50-7376 Universal Kymograph with Stimulator, 230 VAC, 50 Hz

Universal Kymograph Assembly

This Assembly includes the Universal Kymograph with Stimulator plus a comprehensive set of accessories with a 165 page Applications Manual with detailed instructions for over 30 experiments. 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 drugs

- **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

For locust work, a special cork mounting block is supplied, which wedges vertically in the muscle chamber. The accessories for the Kymograph are listed on the following pages.

Catalog No. $ Product

- BS4 50-7384 Universal Kymograph Assembly, 115 VAC, 60 Hz
- BS4 50-7392 Universal Kymograph Assembly, 230 VAC, 50 Hz