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TICKER TAPE TIMER

CAT NO. PH0353A



Instruction Manual

INTRODUCTION:

This apparatus works on the principle of an electromagnetic vibrator 'dotting' via a piece of carbon paper onto a length of ticker tape, which is drawn along by attachment to acceleration trolleys or similar apparatus. Transit time is calculated by counting the number of dots in a measured length of tape.

1. Electrical Supply

The instrument operates on 12V a.c.; this is half-wave rectified to produce 50 or 60 dots per second according to mains frequency. (Interval between consecutive dots is therefore 1/50 or 1/60 second). The instrument **MUST NOT** be used on d.c.

2. Setting up

Connect 12V a.c. supply to the input sockets, and adjust the spring-loaded screw until the armature is vibrating strongly.

3. Use

Place one of the carbon paper discs on the peg, carbon side downwards; support the roll of ticker tape in a dispenser, or on a rod so that it rotates freely. Clamp timer onto bench by means of a G-Clamp, in such a position that the tape guides will be in line with the pull of the tape. Thread tape through guides and under the carbon paper disc; connect a.c. supply and pull tape gently and uni-formly. Inspect dots to ensure that they are clear and distinct. If the dots are 'tailed' or double dotted', adjust the armature retaining screw until clear dots are produced. See also that the carbon paper rotates when the tape is pulled through. The peg is adjustable to allow maximum use of the carbon paper.

Connect free end of tape to device under experiment; if it is required to record the movement of two trolleys, two tapes must be used. These are arranged as follows: lower tape sliding directly over anvil plate, with carbon paper disc on top, with carbon surface downwards; place a second carbon paper directly on top of the first one, in this case with carbon surface upwards, and second tape over top of the disc. The upper tape should be connected to the object which is initially put in motion. This arrangement minimises the friction between the two tapes.

Manufactured by :

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