



# TELTRON

Atomic Physics Educational Apparatus

## TEL 805 Lapsed Time Unit

A self-contained electronic stop-watch with six preset times; allows the student to perform calculations, progressively draw graphs, prepare absorbers, scatterers etc. during the course of an experiment, thereby making the most of valuable practical work periods, avoiding the laborious use of manual stop-watches.

Particularly convenient in atomic physics experiments where low count rates require the use of a Scaler rather than a Ratemeter.

### Lapsed Times:

Low Count rates: 10s, 30s, 100s (for counts per second).  
Very low count rates: 1 min, 3 min, 10 min (for counts per minute).  
Accuracy:  $\pm 1\%$ .

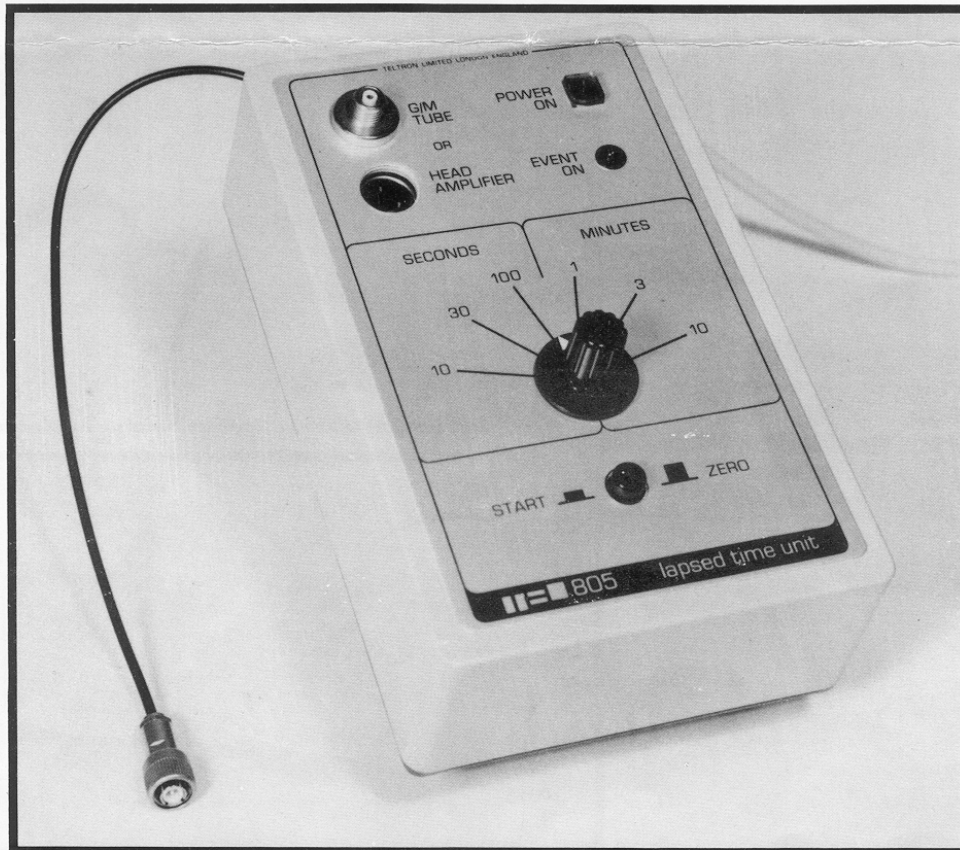
### Power Input:

110, 220, 240V  $\pm 10\%$ , 50/60 Hz.  
Power Selector.  
'Power On' neon indicator lamp.  
'Event On' LED indicator lamp.

### General:

*Housing:* Aluminium Alloy diecast box.  
*Ambient Temp.:* 35°C (95°F) max.  
*Dimensions:*  
W, 120; D, 210; H, 100mm.  
*Weight:* 1.0kg.

See control layout overleaf



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### Controls:

Lapsed time Selector: 6-way rotary switch.

*Start Switch:* Locking press-button; press to start, release to zero.

*Note:* Scalers should be reset to zero after each timed interval.

### Connections:

*Input:* G.M. Tube: co-axial socket type PET. 142. Head Amplifier: 6-pin DIN socket.

*Output:* Integral cable, 30cms long terminated with PET plug type 101.

*Mains Cable:* Integral, two metres long.

