

Trochotron Counter, Unknown



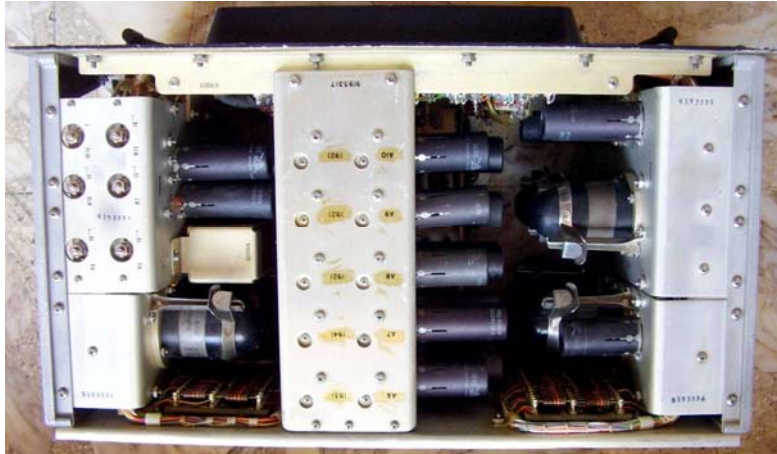
This is a 6-digit timer/counter set, probably part of a larger equipment. A visual inspection evidences the absence of any power supply section inside, interfacing to other units through two multi-pole connectors on the rear, 'Supply' and 'Signal'.

The controls on the front panel include three precision AC/DC voltage dividers, for each of the three input signals, either from the front panel BNC connectors or from the rear 'Signal' connector: 'Start', 'Stop', 'Rate'.

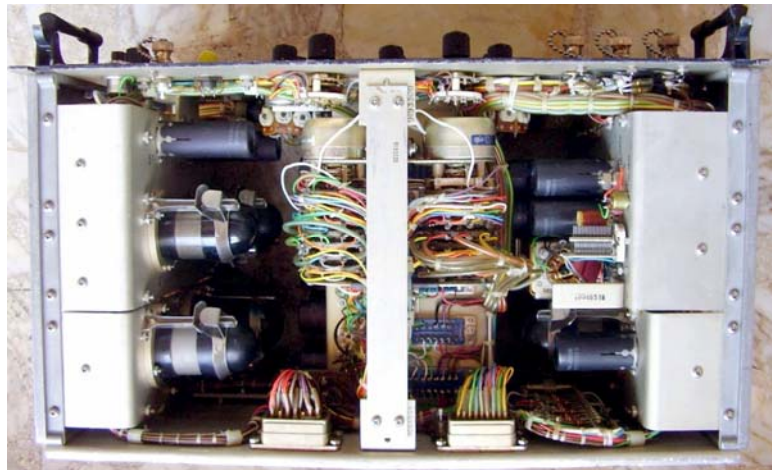
The internal time base starts from a high-stability 100KHz quartz controlled oscillator. The crystal is mounted inside a thermostatic oven. A chain of synchronized multivibrators is used to scale-down the oscillator frequency. Period is counted by six 6700 trochotrons, each driving a 5844 nixie™ indicator.

Tube complement, approximate:

4 ea	6U8A	triode-pentode
3 ea	5687	twin-triode, medium-mu
1 ea	5725	gated amplifier, 6AS6
6 ea	6844	Nixie™, neon numerical indicator
2 ea	5963	twin-triode, medium-mu
1 ea	5965A	twin-triode, computer-rated 12AV7
6 ea	6700	trochotron
17 ea	6829	twin-triode, high-rel 5965



Internal view from the top. On the left the time base over a smaller sub-chassis with two trochotron counters. In the middle a sub-chassis which looks to be a pulse former associated to input attenuators. Right, four counters. Click on images to enlarge.



Internal view from bottom. On the left, two sub-assemblies with four trochotrons. In the middle two Leedex rotary selectors, part of the attenuator assembly. Right, the time base over a two-decade counter chassis.



Right side showing the bottom of counter sub-chassis with its superb wiring.