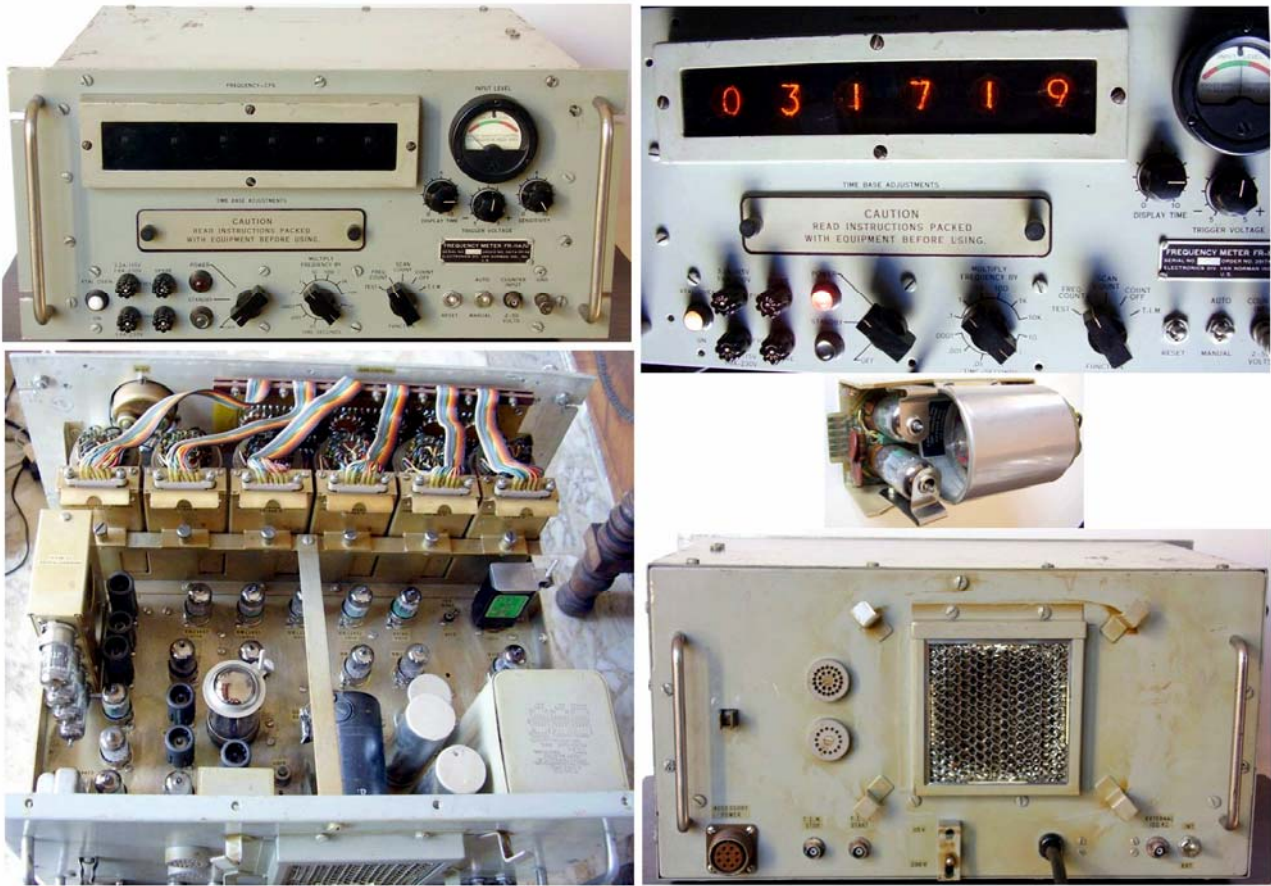


FR-114U – Digital Frequency Meter



Quite rare frequency counter based upon [trochotron beam-switch counters](#).

6 digit nixie display. BNC input, 1 MHz max, 2 to 50 volts input signal. [6703](#) trochotron counters, driving [6844](#) Nixie indicators. 100 kHz internal reference with synchronized multivibrators in the time-base dividing chain.

The counting circuit operates under the control of a reset circuit and of the time-base. The reset circuit is based upon a [6D4](#) thyratron which generates a positive pulse, to release the electron beams in each trochotron counter, and a longer negative pulse to set all counters to zero. Counting gate opening is enabled after the reset pulse and the gate, a dual control 6AS6, stays open for the selected measuring time, under the control of the time base. On the gate closing a variable delay circuit controls the display time before starting the new counting sequence.

Van Norman Industries and Winslow Electronics known contractors.

This sample, made by Van Norman Industries, is operating and complete of its maintenance manual, TM 11-6625-218-35, a true source of interesting notes on the operation of trochotron counters.

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