DEPARTMENT OF

TRADE AND COMMERCE
CANADA

S-EA.474

STANDARDS BRANCH

OTTAWA October 6, 1960.

TYPE APPROVAL

KENT "MULTELEC MARK III M/MVM/2 TO M/MVM/16"
MULTIPOINT, STRIP CHART POTENTIOMETER RECORDER

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Electricity Inspection Act, Chapter 94, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: "Multelec Mark III M/MVM/2 to M/MVM/16" Multipoint, Strip Chart Potentiometer Recorder, manufactured by George Kent, Luton and London, England, and distributed in Canada by George Kent (Canada) Ltd., Toronto 14, Ontario.

Rating of Apparatus:

*Millivolt Input or Inputs	Ranges from 0-2 mv. to 0-2000 mv., D.C.
Number of Points	2, 3, 4, 6, 8, 12 and 16
Record: 2-Point	Multicoloured dots; single colour dot and numeral; multicolour dot and numeral; hieroglyphics + and x single colour; hieroglyphics + and x multicolour.
3, 4 and 6-point	Multicoloured dots; single colour dot and numeral; multicoloured dot and numeral.
8, 12 and 16-point ...	Single colour dot and numeral. Multicolour not available.
Current Standardization	Automatic current regulation
Chart	9-7/8"
Scale	9-7/8" and 10" calibrated width
Response Time	2 seconds
#Point Cycle Time	5, 10 or 20 seconds
°Chart Speeds ..... (i)	1, 2, 4, 15, 30, 60 inches per hour.
(ii)	2, 4, 8, 30, 60, 120 inches per hour.
(iii)	4, 8, 16, 60, 120, 240 inches per hour.
Supply Voltage	110-115 volts or 200-250 volts
Supply Frequency	60, 50 or 25 cycles.

*Note: The kilowatts, megawatts, or other power function which the millivolts represent, shall be shown on the nameplate or scale.

#Point cycle time is the time between successive printings. This value is fixed at the factory.

°The instrument may be fitted with any one of the three approved blocks of chart speeds. Variation of speed within the block is obtained by moving a pointer knob on the front panel; the three highest speeds require the reversal of a gear behind the chart plate.

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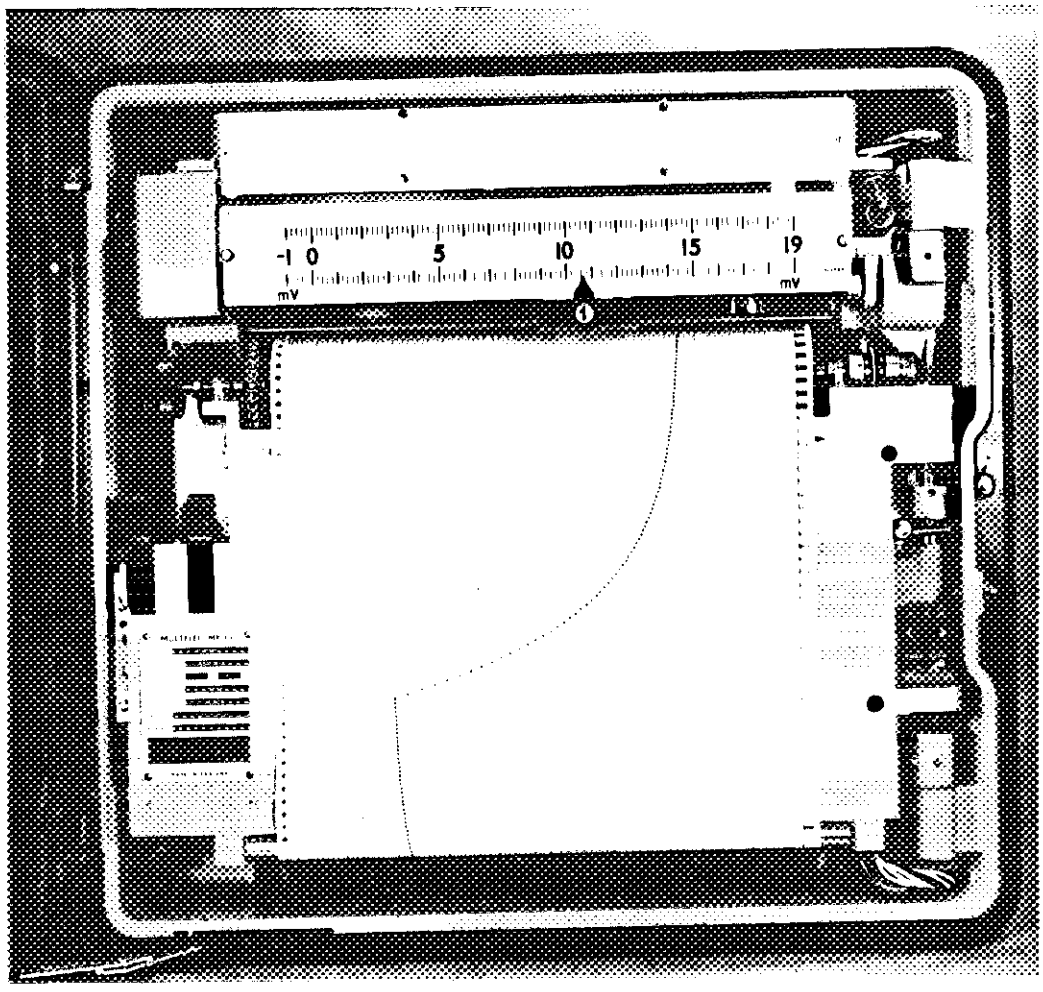
KENT "MULTELEC MARK III" MULTIPOINT STRIP CHART POTENTIOMETER RECORDER



Description: The general description of the multipoint potentiometer recorder is in most respects similar to that of the single-point recorder type M/MM/S receiving approval under Circular S-EA.452-Amended. The major difference is that the multipoint recorder may have from 2 to 16 different inputs. By means of a switch keyed to the printing mechanism, these inputs are selected in turn and their value printed on a chart in identifying data, numbers or symbols.

The type designation indicates the number of inputs that are built in: e.g., M/MM/2 has 2 inputs, M/MM/8 has 8 inputs. Each input is electrically isolated from the others. The interval between successive printings can be set at the factory for 5, 10 or 20 seconds. Only the number of points listed are available; any unused points are shorted to produce a zero print.

This approval covers an instrument arranged for left-hand zero, centre zero or raised zero up to half scale.

The suffixes /G for pneumatic control function and /N for pneumatic retransmission are not covered by this approval.

This recorder is approved for use unsealed.

It should be noted that some instruments have a 9-7/8" calibrated width for the rated millivolt range whereas others have a calibrated width of 10" although the physical scale travel of the latter is limited to 9-7/8".

Approval includes instruments incorporating a retransmission slidewire.

E. F. Power

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Chief, Electricity & Gas Division,
Standards Branch.

R. W. MacLean

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