



DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

E-72

OTTAWA, June 24, 1968.

NOTICE OF APPROVAL

FOR

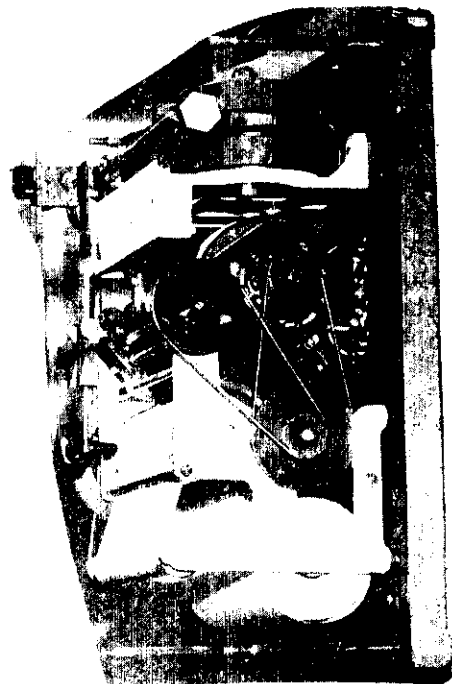
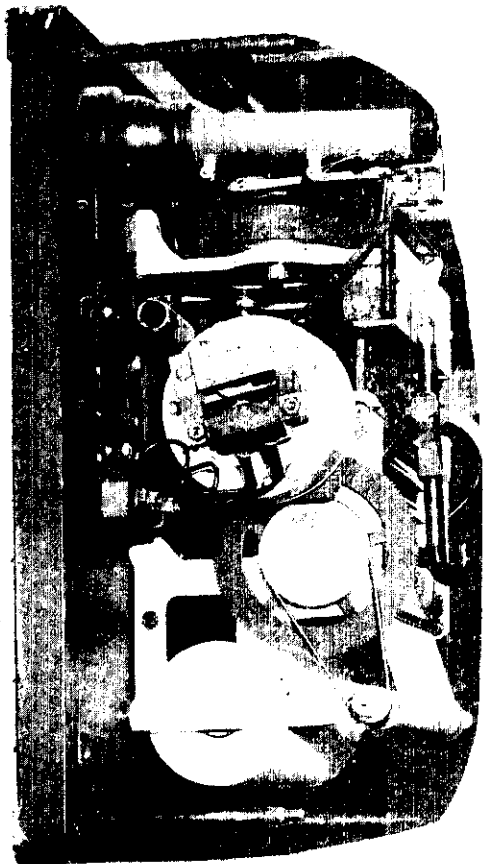
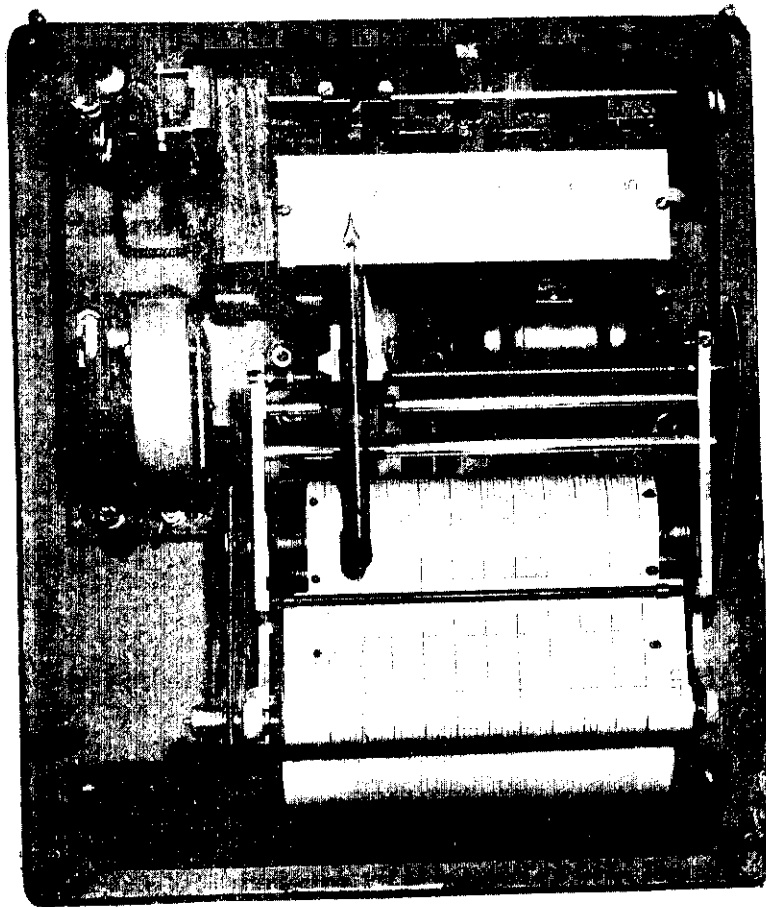
CANADIAN WESTINGHOUSE TYPE "G" RECORDING WATTMETER

Apparatus

Nominal Current	5 amperes
Nominal Voltage	110 and 115 volts
Elements	2
Frequency	25 and 60 hz
Full Scale	500 watts per element
Mounting	Switchboard
Verification	in situ
Pen-actuating motor	externally powered
Synchronous chart drive motor	externally powered
Chart speeds available	1, 2, 4, 8 inches per hour
Pen speed	adjustable from 10 to 20 seconds full scale
Sensitivity	adjustable from 1/5% to 2% full scale
Optional attachment	pen carriage actuated alarm contacts

Description

The measuring element operates on the Kelvin balance principle. Two moving coils, one on each end of a centre pivoted frame, move in a vertical plane between four stationary coils. A contact attached to the balance arm contacting either the upper or lower stationary contact of the control motor circuit causes the pen to be driven either up or down the scale according to the direction of armature current.



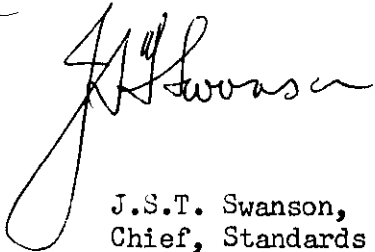
Movement of the pen carriage is transmitted via a drag link to a travelling weight which produces a counter torque about the pivot opposed to that produced by interaction of the coils. At a steady load condition, the travelling weight balances the torque produced by the coils, leaving both control circuit contacts open.

Zero adjustment is effected by adjustable weights on the right hand end of the moving element and calibration is accomplished by adjustable nuts on the end of the drag link.

As the type "G" recording wattmeter is no longer manufactured, this approval is intended to cover those currently in service.

Approval granted to:

The Canadian Westinghouse Company Limited,
Hamilton,
Ontario.



J.S.T. Swanson,
Chief, Standards Laboratory,
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W.J.S. Fraser,
Chief, Electricity & Gas Division,
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Ref: SL-100-61F