



CANADA

DEPARTMENT OF TRADE AND COMMERCE
STANDARDS DIVISION

OTTAWA, May 23, 1950.
(Superseding Circular Letters SD-EC.72
and 72-a of Feb.3 and 8, 1950)

NOTIFICATION OF TYPE APPROVAL

The apparatus specified and illustrated herein has been duly approved by the Standards Division under the provisions of The Electricity Inspection Act, Chapter 22, 1928, and may be admitted to verification in Canada.

Apparatus Approved: Types "FMA" and "FMS" Watthour Meters, manufactured by the Ferranti Electric Limited, Toronto, Canada.

Rating of Apparatus:

Amperes 5, 10, 15, 25 and 50
Volts 115, 230
Wire 2 and 3
Frequency 60 cycles.

Description: The shunt and series elements are magnetically connected by means of a cast-iron frame, the shunt element consisting of a three-legged core with cellastoid pins in the leak gaps. The series element has an overload compensation bridge piece pressed into grooves in the core. The rotor is an aluminum disc colletted to a dural alloy spindle with the lower end drilled for a steel pivot. The sapphire jewel is spring seated. The top bearing consists of a polished steel pivot fixed rigidly in a brass holder and fitted into the brass cap of the rotor spindle, which is provided with a well of vaseline. The braking system consists of an aluminum alloy die casting assembly, housing an alnico magnet. Temperature compensation is provided by means of two strips of mitemp placed across the poles of the permanent magnet.

When the assembly of the types "FMA" and "FMS" 60-cycle meters is changed as follows, the meters are approved for use on 25 cycles:

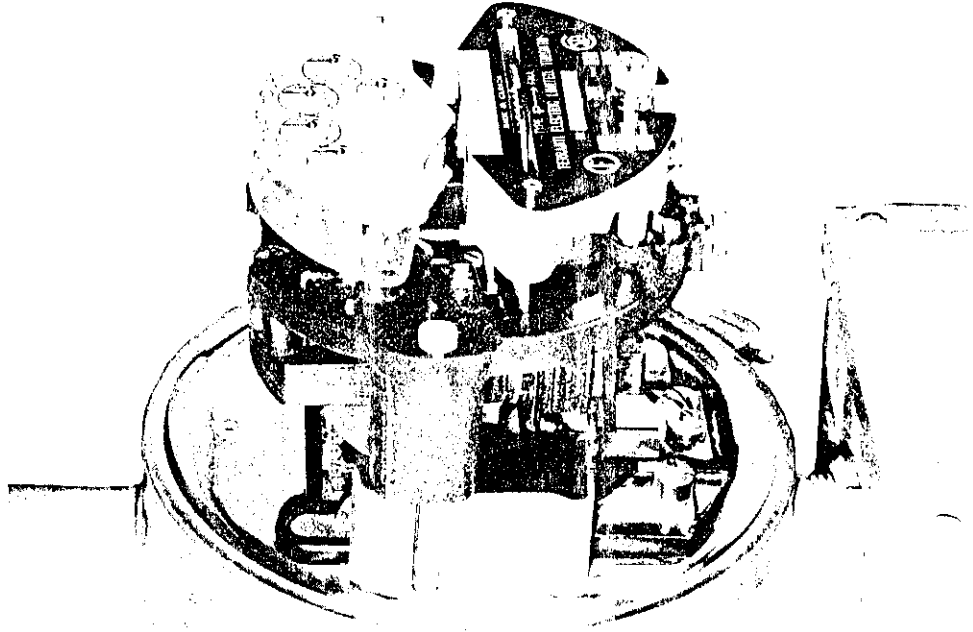
<u>60-cycle Meter</u>		<u>25-cycle Meter</u>	
Cellastoid Leak Gap Pins	- MD.216	Bonded Leak Gap Pins	- MD.169B
Tongue Piece	- MD.432	Tongue Piece	- MD.460
Overload Compensation Piece	- MD.429A	Overload Compensation Piece	- MD.474
<u>Two</u> Temperature Compensation Pieces	- MD.414A	<u>One</u> Temperature Compensation Piece	- MD.414A
		Lower Permanent Magnet Strength	than used in 60-cycle.

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SD. EA. 22

FERRANTI TYPE "FMS" WATERBOUR METER



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