



DEPARTMENT OF TRADE AND COMMERCE  
STANDARDS DIVISION

OTTAWA, August 20, 1951

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, as amended, and may be admitted to verification in Canada.

Apparatus Approved: Types "R-21A" and "R-21S" Single-Phase Watthour Meters, manufactured by the English Electric Company of England, and assembled and sold in Canada by the English Electric Company of Canada, Limited, St. Catharines, Ontario.

Rating of Apparatus:

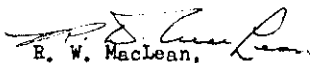
Nominal Amperes ....	5	10	15	25
Maximum Amperes ....	20	40	60	100
Volts .....	110	110 & 220	110 & 220	110 & 220
Frequency .....	50 or 60	50 or 60	50 or 60	50 or 60
Wire .....	2	2 or 3	2 or 3	2 or 3
Phase .....	1	1	1	1

Note: Meters may be supplied with 5-ampere coils for operation from current transformers or current and voltage transformers, either as transformer-type or transformer rated meters.

Description: The meters are single-phase induction disc watthour meters in either the "A" or "S" base style, as indicated by the suffix.

The light load adjustment is quite usual, consisting of a screw-actuated lever which moves a metal plate between the electro-magnets. The power factor adjustment is made by varying the length of resistance wire in the power factor loop, and is a soldered pigtail type adjustment. The full load adjustment and braking magnet assembly is unusual in appearance and design. The braking magnet consists of two separate magnetic circuits, one on each side of the front half of the disc. Each circuit includes two U-shaped "Alcomax 3" oriented high-coercive force magnets, held in a die cast non-magnetic support. The left-hand braking element only incorporates the adjustment for full load.

Registers: Approval covers the use of either clock-type or cyclometer-type registers. The cyclometer-type register employs light-weight plastic rollers and pinions, and has a clock test dial.

  
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Ref: A-228

ENGLISH ELECTRIC TYPE "B21A" WATERHOOR METER

