



STANDARDS DIVISION

OTTAWA, March 1, 1955.

MODIFICATIONS OF TYPE APPROVALENGLISH ELECTRIC TYPES "B-21A" and "B-21S" WATTHOUR METERS

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

Apparatus Modified: Types "B-21A" and "B-21S" Single-phase Watthour Meters, manufactured by the English Electric Company of Canada Limited, St. Catharines, Ontario.

Rating of Apparatus: All ratings as previously approved on Circulars SD-EA.65, August 20, 1951 and SD-EA.168, November 25, 1954.

Modifications: Approval covers the following modifications which have been introduced for the purpose of improving performance and facilitating testing:

1. A new method of mounting the brake magnet unit by bolting it directly to the movement frame, both magnets being located in a machined track which gives accurate positioning and maintains this position with respect to the disc.
2. A simpler direct acting high load adjusting device has been provided which the manufacturer claims will be easier to assemble and which will have less backlash than the previous design and will simplify calibration procedure.
3. Additional temperature compensation has been provided by attaching additional shunting plates to the permanent magnet for the purpose of minimizing the effect of friction on the low load performance at low temperatures.
4. An inductive load adjustment has been provided which can be operated with a screw driver. This consists of two nickel alloy resistance strips mounted in a rectangular trough of thermo-setting resin together with a shorting clamp. The adjustment is designed to provide an overall range of approximately 6% at 50% P.F. and to give a uniform change of adjustment over the range.
5. A new nameplate has been provided with more legible rating details and extra space for inspection numbers or tags bearing such numbers.

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Ref: A-228E

