



CANADA

DEPARTMENT OF TRADE AND COMMERCE  
STANDARDS DIVISION

OTTAWA, February 27, 1952.

MODIFICATION OF TYPE APPROVALC.G.E. TYPES I-30A AND I-30S "UNIVERSAL" METERS

The modification to 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 the modified apparatus may be admitted to verification in Canada.

Apparatus Modified: Types "I-30A" and "I-30S" Single-Phase Watthour Meters, manufactured by the Canadian General Electric Company Limited, Toronto, Canada.

## Rating of Apparatus:

Rated Amperes ..... 15 (12.5 nominal) and 25  
Frequency ..... 25 and 60 cycles  
Voltage ..... 115/230

**Modification:** These meters, which the manufacturer terms "Universal" 2-Wire/3-Wire meters, are modifications of the standard types "I-30A" and "I-30S" single-phase meters. The modification consists of designing and constructing the 3-wire meters in such a way that they may be put into service initially as 2-wire meters and later, when the necessity arises, readily converted into completely standard 3-wire meters. The conversion procedure is as follows:

For type "I-30A" meters - The meter element is removed from the base by taking out the two retaining screws. The jumper between the current coil terminals No.3 and 4 along with the jumper between the connection strip for terminals No.2 and 3 are then removed. The flexible jumper between current coil terminal No.2 and meter terminal No.4 is removed. The meter element may then be re-assembled to the base and the current coil terminals connected in the regular manner.

For type "I-30S" meters - The meter element is removed from the base by removing the two retaining screws. The jumper between current-coil terminals No.3 and 4 along with the jumper between connection strips for terminals No.2 and 3 are then removed. The flexible jumper between current-coil terminal and meter terminal No.4 is removed. The meter element can then be re-assembled to the base, and the current-coil terminals connected in the regular manner.

Two name-plates are supplied, the 2-wire one being fitted on top of the other. The 2-wire name-plate is to be destroyed when the meter is connected to 3-wire. The meter, as received by the utility, is connected and calibrated as a 2-wire meter. When the meter is converted for 3-wire service, it must be re-calibrated on 230 volts as a 3-wire meter.

**Application:** These meters are intended for use where 2-wire services are expected to be temporary. The conversion is not intended to be reversible.

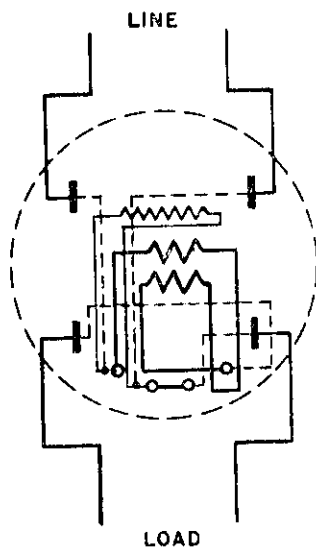
*R. W. MacLean*  
R. W. MacLean,  
Director,  
Standards Division.

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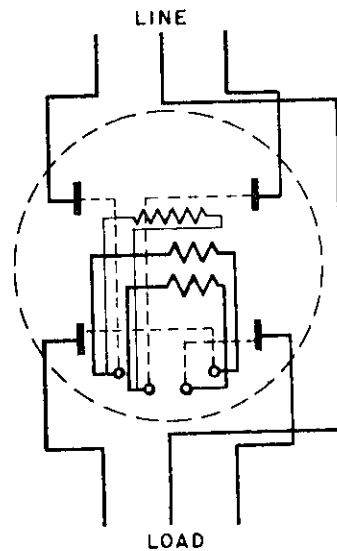
*E. F. Power*  
E. F. Power,  
Assistant Director (E&G),  
Standards Division.

DIAGRAM OF CONNECTIONS  
 FOR  
 C.G.E. TYPES "I-30A" and "I-30S"  
 2-WIRE/3-WIRE METERS

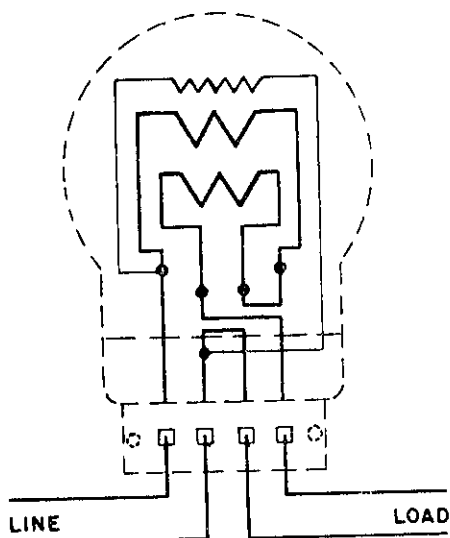
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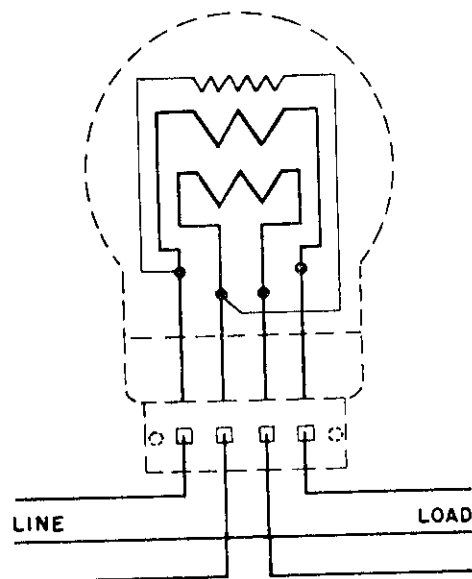
"S" TYPE 2/3 WIRE METER  
 CONNECTED FOR 2 WIRE SERVICE



"S" TYPE 2/3 WIRE METER  
 CONNECTED FOR 3 WIRE SERVICE



"A" TYPE 2/3 WIRE METER  
 CONNECTED FOR 2 WIRE SERVICE



"A" TYPE 2/3 WIRE METER  
 CONNECTED FOR 3 WIRE SERVICE