



DEPARTMENT OF TRADE AND COMMERCE
STANDARDS DIVISION

OTTAWA, August 31, 1951.

MODIFICATION OF TYPE APPROVAL

The modification to the apparatus specified 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 "CPA" and "CPS" Watthour Meters, manufactured by the Sangamo Company Limited, Leaside, Ontario.

Rating of Apparatus: Nominal Amperes 15 and 25
Frequency 25 or 60
Voltage 115/230

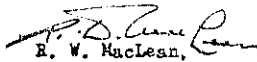
Modification: The modification consists of designing and constructing the 3-wire meters in such a way that they can be put into service initially as 2-wire meters and later, when the necessity arises, they can be readily reconverted into completely standard 3-wire meters. It involves only the current coils, the nameplate, and the calibration, as follows:

Coils: The current coils are so constructed that by cutting at points marked "x" near B, C, and D on Fig.1 (see reverse) and near K, H, and I on Fig.2, reconnecting as shown by dotted lines and by removing the jumpers FG or LM, the meter becomes a standard 3-wire meter.

Nameplate: Each meter is fitted permanently with the standard 3-wire, 230-volt nameplate and, covering the upper half, a partial nameplate carrying the 2-wire, 115-volt stamping. The partial nameplate is discarded when the meter is changed to a 3-wire meter.

Calibration: The meter, as received by the utility, is connected and calibrated as a standard 2-wire, 115-volt meter. The K_1 and register, however, are those of a 3-wire meter. When the meter is converted for 3-wire service, it must be recalibrated on 230 volts as a 3-wire meter.

Application: The application for such meters is where existing 2-wire services are expected to be temporary due to the existence of a general program of standardizing on 3-wire services, or for reasons of load growth. Their purpose is to eliminate the expense of rebuilding or replacing surplus 2-wire meters. The procedure is not intended to be reversible.


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Ref: A-231

DIAGRAM SHOWING CURRENT COIL CONNECTIONS FOR
 SANGAMO TYPES "CFA" AND "CFS" WATTHOUR METERS
 (2-Wire/3-Wire)

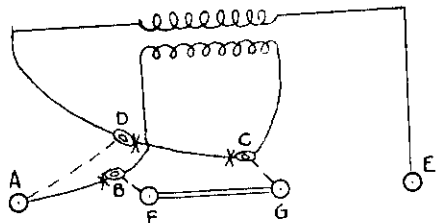


Fig. 1 (Type CFA)

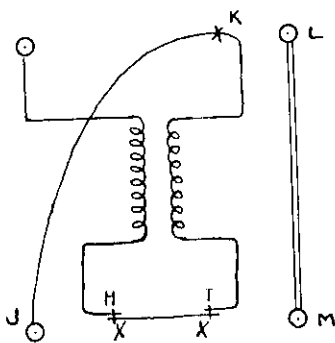


Fig. 2 (Type CFS)