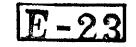


DEPARTMENT OF TRADE AND COMMERCE STANDARDS BRANCH



ottawa January 10, 1966.

NOTICE OF APPROVAL

FOR

SANGAMO TYPES "TJA" AND "TJS" SINGLE PHASE COMBINATION

THERMAL DEMAND ENERGY METERS

Apparatus

Rating

Current Ranges (amperes) Voltages	.12-8.0 115, 120,	-	0.5-40 240 volts	•75 80	2.0_160	2.0-200
Wire	2 and 3 all ratings					
*Full Scale Kilowatts	1.5	3.0	7.5	15	30	45
Scale Marking	1500 - all ratings					
*Multiplier	1	2	5	10	20	30
*Disc Constant (Kh)	0.6	1.2	3.0	6.0	12.0	12.0
Register Ratio	166 2/3	166 2/3	166 2/3	166 2/3	166 2/3	250
Indication - 90%	10 and 15 minutes - all ratings					
Indication - 99%	20 and 30 minutes - all ratings					
Frequency	50 and 60 cycles - all ratings					
Register	4-dial clock type with test dial					

^{*} Full scale kilowatts, multiplier and disc constant given above are for either the 230 or 240 volt rating. For 115 or 120 volt ratings, they must be multiplied by 1/2.

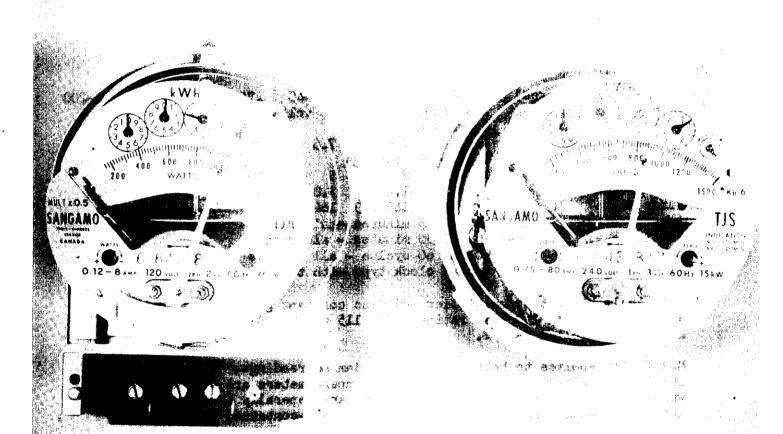
Multiplier applies to both watthour and demand readings. The 0.5-40, .75-80, 2.0-160 and 2.0-200 ampere meters are self-contained, while the .12-8.0 and the .25-16.0 ampere are generally transformer type meters, although they are available in the self-contained design.

Description

The Type TJ meter consists of a new Thermal Demand element designed to the presently—approved type CJ3 single phase watthour meter.

The major change to the watthour meter was decreasing the wire size of the potential coil by one size to allow sufficient room to wind the coil for the potential circuit of the thermal demand element. All the other design characteristics of the CJ3 meter have been retained, although the maximum current rating of each meter, except the 200 ampere, has been decreased to 80%.

1. N. 4.



Description (Con'd.)

The thermal demand element, while new in appearance and construction, is based on principles and techniques of earlier models. It is designed to fit into the smaller diameter covers of single phase watthour meters, to have appreciably higher torque than previous designs, to be more thermally symmetrical and to have a smaller initial thermal lag.

There is no demand potential transformer and the current transformers are of toroidal design.

Approval granted to

The Sangamo Company Limited, Leaside, Toronto 17, Ontario.

W.J. France W.J.S. Fraser,

Chief, Standards Laboratory,

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