

SD-EA.310A (cancelling SD-EA.310)

## STANDARDS DIVISION

OTTAWA, September 24, 1957.

## MODIFICATION OF TYPE APPROVAL

## SANGAMO TYPE "ED30" DEMAND-ENERGY METER

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: Type "ED30" Polyphase Demand-Energy Meter, manufactured by the Sangamo Company Limited, Leaside, Toronto 17, Ontario.

## Rating of Apparatus:

Ampere ratings and related data are tabulated below. For 2-element, values are for 115- or 120-volt meters; for higher voltages they are increased in direct proportion to the voltage.

2-Element 120, 240, 480,	600 or 115.	230, 460,	575 Volts		
Ampere Rating			•5-37•5 7•5		
		3 2	5	10 1-2/3	20
Multiplier	1/6	1/3	1	1-2/3	3-1/3
Maximum Amperes at rated KW and Volts		15	37.5	75	150
$2\frac{1}{2}$ -Element Wye 120/208 V	olts				
Ampere Rating	.12-8.5*	.25-20 <sup>*</sup>	·5-40	1.2-85	
KW Full Scale	3 2	7.5	15 10 2 <b>-1/</b> 2	30	
Multiplier	2	5	10	20	
Watthour Kh	1/2	1	2-1/2	5	
Maximum Amperes at rated KW and Volts	8.33	20.83	41.67	83.3	
$2\frac{1}{2}$ -Element Delta 115/230	or 120/240	Volts			
Ampere Rating		.5-37.5	1.2-75		
KW Full Scale Multiplier	3	15	30 20	40 <b>**</b>	
Multiplier	2			40	
Watthour Kh	1/3	2	3-1/3	6-2/3	
rated KW and Volts	7.5	37.5	75	100	

<sup>\*</sup> May be transformer-type or self-contained; all others self-contained.

\*\* Has 1000-watt scale; others have 1500-watt scale.

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Rating of Apparatus (continued)

Frequency ..... 60 cycles

Demand Intervals ..... 20 and 32 minutes

Register ...... Clock-type, individual on each element, or differential for totalizing readings of both

elements.

Modifications: The modifications from the original approval of the type "ED30" are as follows:-

- (a) Re-rating, by substituting current ranges for nominal and maximum amperes.
- (b) Substitution of re-designed current and potential transformers in the demand portion of the meter.
- (c) Revision of the method of interconnection of the watthour and demand current circuits. The method of making the series connection between the current coils of the watthour and demand meters has been to stack the leads in an assembly of washers and a tube supported by the meter terminal. Internal connection blocks have now been substituted on which interconnections are made.

E. F. Power,
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