

DEPARTMENT OF TRADE AND COMMERCE
ELECTRICITY AND GAS INSPECTION SERVICES

OTTAWA, August 1st, 1934.

District Inspectors of Electricity and Gas:-

Re- Approval of Lincoln type VA.3 Indicating Demand Volt
Ammeter in capacities of 50 and 100 amperes, self-contained.

Dear Sirs:-

I beg to advise you that the above named meter, manufactured by the Sangamo Company Limited, Toronto, Canada, has been approved by the National Research Council for use in Canada on the following voltages and frequencies:-

Volts - 115, 230, 460 and 575.
Frequency- 25 and 60 cycle.

The large capacity type VA.3 meter consists of the same element as used in the type 4L.2 meter, mounted in the same base and cover, but in place of the watt-hour element two current transformers are mounted having either 50 or 100 ampere primary windings and 5 ampere secondary windings. The demand meter is in either case a 5 ampere element operating from the secondaries of the current transformers.

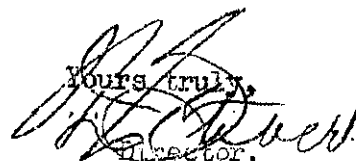
The new feature of this type of meter is the current transformer built into the meter to extend the capacity to 100 amperes.

The power factor switch similar to the type 4L.2 meter is mounted in the same position and is arranged so that by rotating the switch line voltage is connected to different taps of the primaries of the transformers of the demand element and the angle between the voltage and currents supplying the meter element shifted in relative position. In this way the meter is made to indicate the approximate volt-amperes over a limited range of power factors.

The power factor switch has four positions and the direction plate is mounted on the cover showing the four different power factor ranges at which the switch can be set.

A diagram of internal and external connections accompanies this circular.

Yours truly,


Director.