



TRADE AND COMMERCE
CANADA

SD-EA.2

STANDARDS DIVISION

OTTAWA, May 1, 1948.

NOTIFICATION OF TYPE APPROVAL

The apparatus specified and illustrated herein has been duly approved under the provisions of the appropriate Act, and may be admitted to verification in Canada.

Authority:- The Electricity Inspection Act, Chapter 22, 1928.

Ruling Body:- The National Research Council.

Apparatus Approved:- Type CG-10 Watthour Meter, manufactured by Landis & Gyr S.A., Zug, Switzerland. The CG-10 designation covers a bottom connected (House type) meter. The addition of the letter "f" covers switchboard projection or flush mounting types. The addition of the letter "h" covers a meter with a reverse running stop. The temperature compensation used in this meter may be incorporated in the previously approved CG-1 meter.

Rating of Apparatus:- 60 cycles, 2-wire only.

Rated Amperes: 2.5, 5, 10, 15, 20; Maximum Amperes: 10, 20, 40, 60, 60.

Voltages: Not exceeding 260 volts when supplied with metal cover, and not exceeding 450 volts for molded case.

Description:- The Landis & Gyr CG-10 meter is of conventional design. The base is constructed of sheet steel, and the cover of aluminum, or both base and cover may be of molded material. The general shape of the meter approximates a cube with the electromagnet mounted in one corner and the permanent drag magnet opposite. The current coil assembly, mounted below the disc, carries a magnetic shunt across the pole pieces, which provides overload compensation. The permanent magnet is fitted with a small plate of temperature-sensitive alloy, forming a magnetic shunt which compensates for Class 1 temperature errors. The lower bearing is single jewel and ball, the upper, steel pin and brass bushing. The take-off to the register is by worm and worm-wheel. The register frame is of brass or aluminum sheet, and the gear wheels, brass with steel spindles. Six pointers and dials are provided; those with fractional indication (test dials) are distinguished by white figures on dark background.

Adjustments:- Full load: The brake magnet is mounted on a slotted plate, which permits the complete assembly to be rotated relative to the supporting frame.

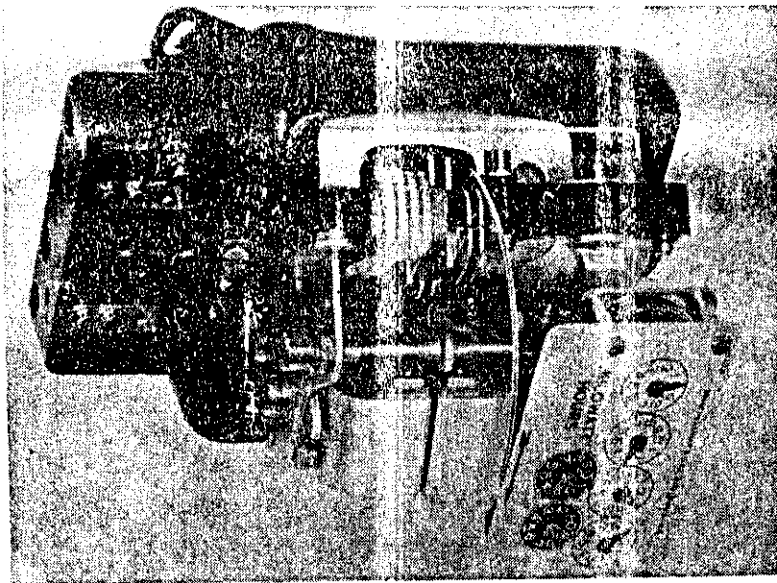
Light load: An adjustable vane, mounted above the disc, provides additional torque to overcome friction when moved in the direction of rotation. Power factor: A copper vane, adjustable in the air gap of the potential laminations, provides correction on inductive load.

Anti-creep: A small wire of magnetic material, mounted on the potential electromagnet, interacts with a similar wire wound on the rotor shaft.

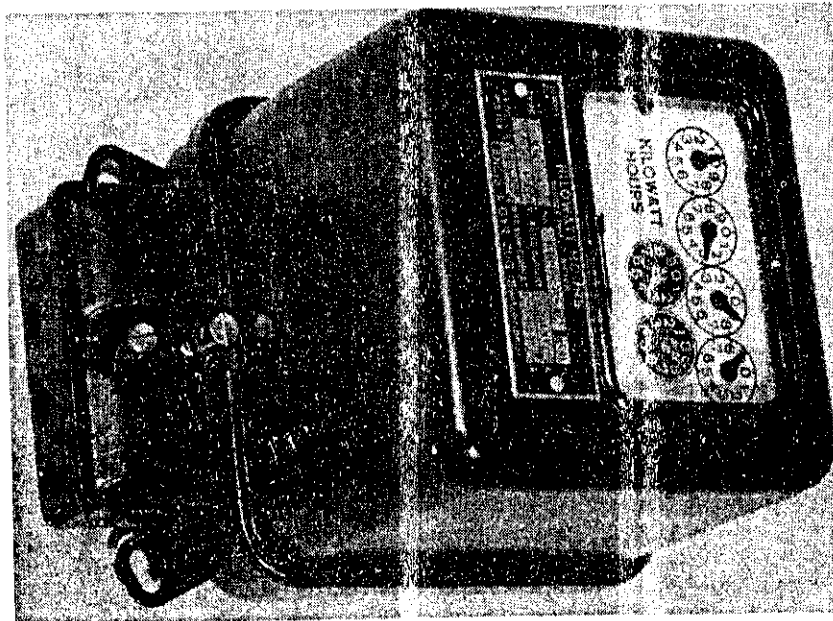
Testing:- The standard tests for a 2-wire single phase meter will apply.

L. V. Hunt,
Chief Engineer

A. F. Gill,
Director of Standards



Internal View



General View

LANDIS & GYR - TYPE GC-10
Two-wire, single phase, 60 cycles

SD-7A.2