

DEPARTMENT OF



TRADE AND COMMERCE  
CANADA

STANDARDS BRANCH

S-GA.213

OTTAWA June 15, 1961.

TYPE APPROVAL

"AMERICAN" SWISS-ALINA CHART DRIVE

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Gas Inspection Act, Chap. 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: "American" Swiss-Alina Chart Drive, manufactured for the American Meter Company by the Société Industrielle de Sonceboz in Switzerland, and distributed in Canada by the Canadian Meter Company Limited, Milton, Ontario for use in any suitable approved circular chart recorder supplied by the Canadian Meter Company Limited.

Rating of Apparatus:

The output of the basic Alina clock is 24 hours per revolution, with standard change turrets for 8 days, 7 days, 72 hours, 48 hours and 24 hours. The 24-hour turret has a 1:1 gear ratio. A 24-hour chart may also be operated by means of a plain hub and set screw assembly. When fully wound, the clock movement will run a minimum of 9 days.

Description: The clock movement has no jewels and is of the pin-pallet type with dynamically-balanced balance wheel. It is supplied with a base plate drilled for mounting in standard instrument and orifice meter cases. A short shaft extends from the clock movement, in a position concentric with the chart location. Change speed gear boxes or 'turrets', as they are termed by the Company, slip over this short shaft and are locked into place with a slight twisting motion. These turrets impart the desired rotational speed to the chart, maintain the concentricity, and have an anti-backlash gear to eliminate play at the chart hub. The time for one revolution of the chart is stamped on each turret, and the clock movement and turret assembly may be identified by the word "American" embossed on the chart drive case.

This approval covers the use of this chart drive mechanism in any suitable approved circular chart recording instrument manufactured by either the American Meter Company or the Canadian Meter Company, and distributed in Canada by the Canadian Meter Company.

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