DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

G-31

CANADA

OTTAWA May 15, 67.

NOTICE OF APPROVAL

FOR

CANADIAN METER COMPANY, TYPE ALC 110, L.P.G.,
STANDARD AND TEMPERATURE COMPENSATED,
POSITIVE DISPLACEMENT GAS METER

Apparatus

Badged capacity	140 cu. ft./hr. (air)
Differential pressure at badged capacity	0'5" w.g.
Capacity per revolution	0.0625 cu. ft.
Working pressure	5 psi
Diaphragm designation	D7
Compensating tangent activity (T.C. Meter)	0.00085"/°F
Base temperature (T.C. Meter)	60°F
Tangent to 2 cu. ft. test dial revolution ratio	32:1
Meter connections	3/4" N.P.T. female

Description

The type ALC 110 gas meter is of the conventional design. The die-cast aluminum meter case carries two diaphragm covers at front and back, and the top cover with its side meter connections and the hand hole cover for access to meter adjustment. The valve compartment contains white metal alloy valve seats which carry plastic valves. The double adjustable tangent permits valve timing and diaphragm stroke adjustments. The counter type register has four digit capacity, the last digit indicating 100 cu. ft. increments. The register has two clock-type test dials with capacities of $\frac{1}{2}$ and 2 cu. ft. per revolution.

In temperature compensated meters the conventional double adjustable tangent is replaced by a bimetallic temperature compensating tangent and a red background badge, attached to the meter, contains the inscription "Temp. Comp. Cu. Ft. at 60°F".

During operation of the temperature compensated meter the tangent length changes with the temperature change of the flowing gas, thus automatically adjusting the stroke of the diaphragms. The rate of change of the tangent length with temperature is so taoly chosen so that irrespective of the temperature of the flowin gas, meter registration indicates the volume passed at 60°F.

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In field testing the temperature compensated meter, supplied correction chart shall be used in establishing the error of the meter when test temperature differs from 60°F.

The temperature compensated meters are intended for operation in temperatures normally prevailing in outside locations across Canada during the seasons of the year.

The compensating tangent used in this meter is identical to the one used in meter ALC 175, approved in Circular C-18.

Approval granted to: Canadian Meter Company Limited,
Milton,
Ontario.

and

Edmonton, Alberta.

W.J.S. Fraser,
Chief, Standards Laboratory,
Standards Branch.

K. Cryer,
Chief, Electricity & Gas Division,
Standards Branch.

Ref: SL-100-68A

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