



DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

G-23

OTTAWA May 10, 1966.

NOTICE OF APPROVAL

FOR

CANADIAN METER COMPANY, TYPE AI425,
STANDARD AND TEMPERATURE COMPENSATED,
POSITIVE DISPLACEMENT GAS METER

Apparatus

Badged capacity	340 cu. ft./hr. (air)
Differential pressure at badged capacity	0.5" w.g.
Capacity per revolution	0.200 cu. ft.
Working pressure	10 and 25 p.s.i.
Connections (male)	1", 1 1/4" and 1 1/2"
Compensating tangent activity (T.C. meter)	0.001492"/°F.
Base temperature (T.C. meter)	60°F

Description

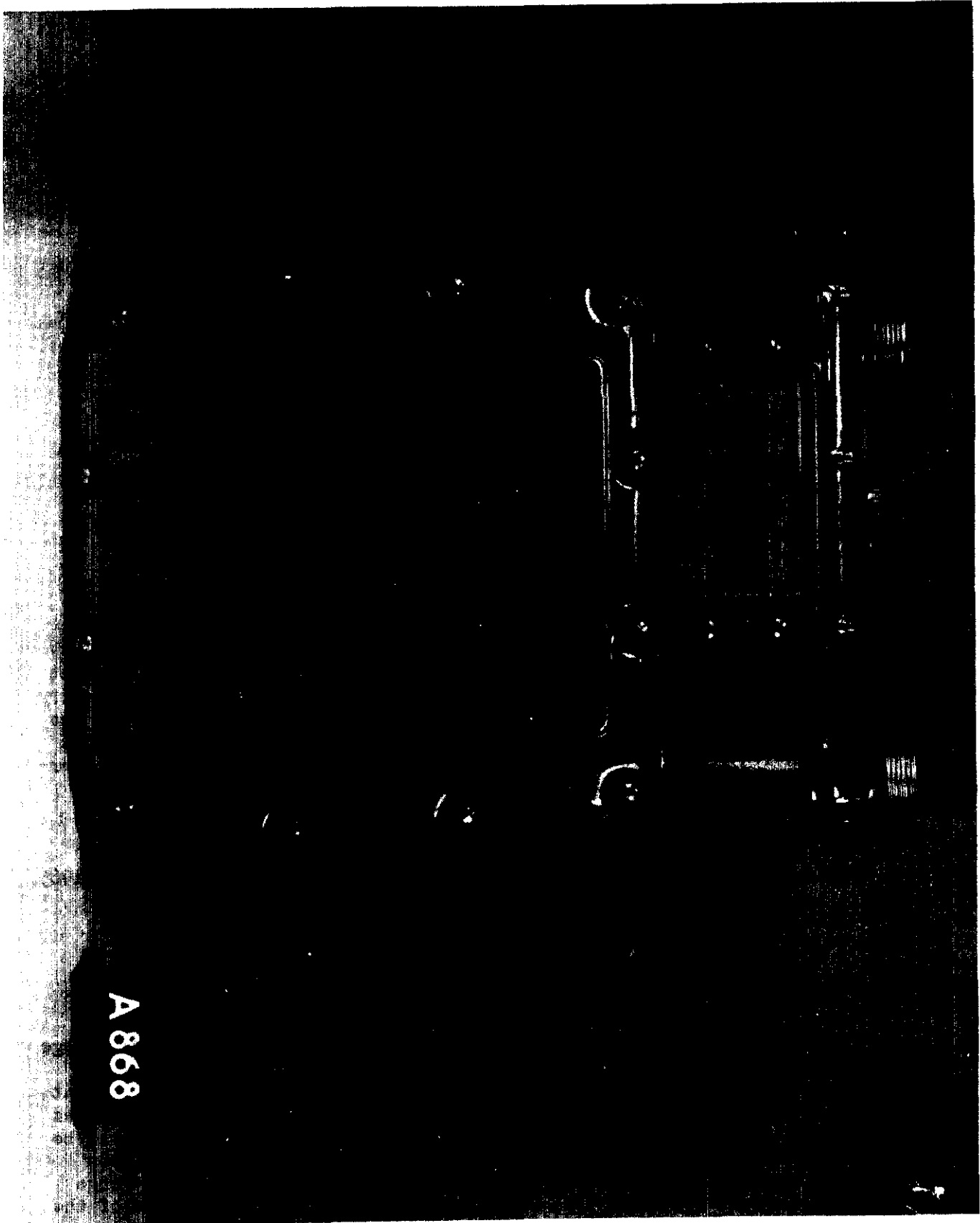
The type "AL-425" gas meter is of the conventional design. The main aluminum casting, partitioned in the middle, forms the meter body with its front and back plates covering the diaphragms. The white metal alloy valve seats carry plastic valves. Single throw crank and double adjustable tangent are used. The meter top, covering the valve mechanism assembly, carries meter connections and a hand-hole with its cover. The meter has a clock type index with four registering and two test dials. The temperature compensated meter is identical to the standard meter except for the following alterations:-

- a) The conventional double adjustable tangent is replaced by the temperature compensating tangent, illustrated in the circular letter dated Sept. 16, 1965.
- b) The nameplate is replaced by a red colored badge with the additional information: TEMP. COMP. CU. FT. at 60°F.
- c) The diaphragms are synthetic only, type D3 or D7B

During operation 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 tangent length with temperature is suitably chosen so that irrespective of the temperature of the flowing gas, meter registration indicates the volume passed at 60°F. In field testing the meter correction chart shall be used in establishing the error of the meter, if test temperature differs from 60°F. The temperature compensated meters are intended for a temperature range normally prevailing in outside locations across Canada during the seasons of the year.

CANADIAN METER COMPANY, TYPE A1425,
STANDARD AND TEMPERATURE COMPENSATED
POSITIVE DISPLACEMENT GAS METER

G-23



A868

This Approval consolidates all 'AL-425' meters approved up-to-date and extends the pressure coverage to 25 p.s.i. It also supersedes Approval Circulars S-GA.190, S-GA.199, S-GA.239 and S-GA.275.

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

W. J. S. Fraser

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

K. Cryer

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Chief, Electricity & Gas Division,
Standards Branch.

Ref: SL-100-868H