



DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

G-20

OTTAWA March 16, 1966.

NOTICE OF APPROVAL

FOR

AMERICAN MODEL "LOW PRESSURE" INDICATING
DEMAND METER

Apparatus

Demand period 24 hours
Spring wound clock drive data:
Wind period 31 days
Output shaft period of rotation 7 days

Description

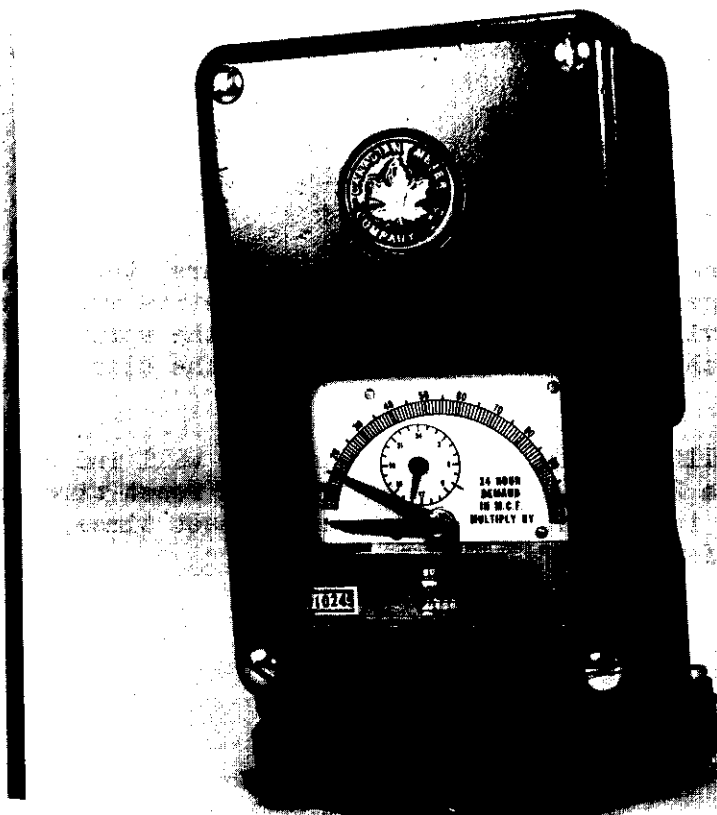
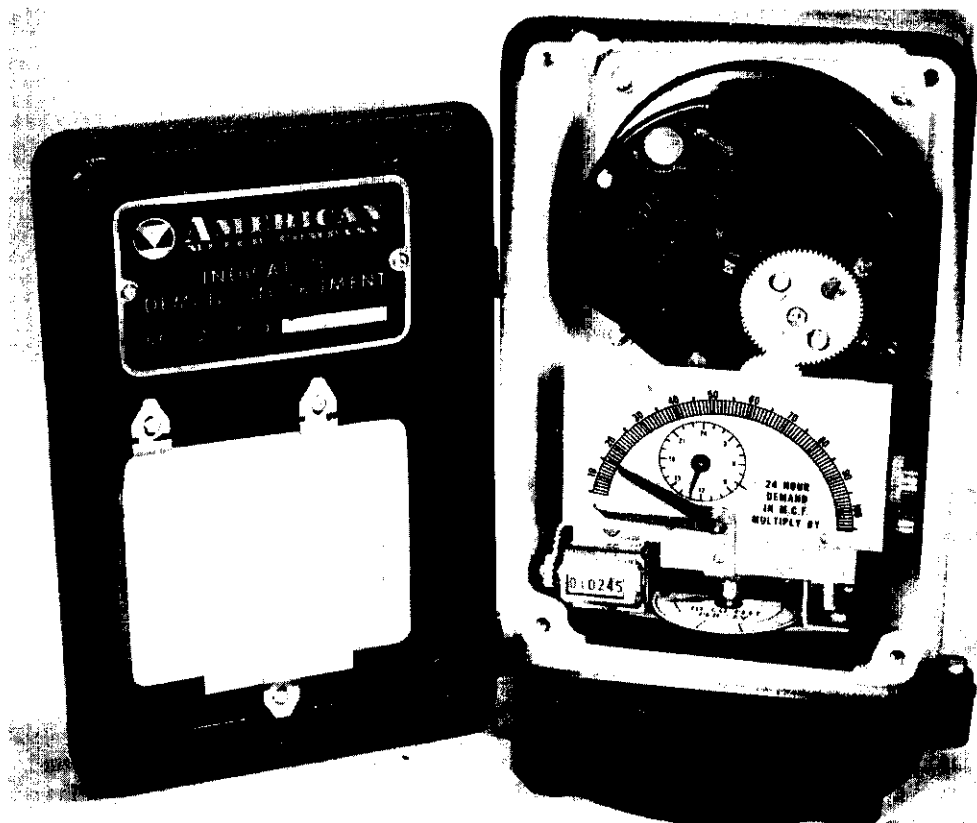
The American "Low Pressure" indicating demand meter consists of an indicating demand register, suitably geared to a mechanical clock drive and a shaft connecting to the meter wriggler, and a six digit counter register, also geared to the same shaft to provide the volume registration of the basic measuring meter. A pointer on the drive shaft and a scale with indicated capacity in cubic feet per revolution facilitates instrument calibration. All components are housed in a die-cast case similar to the type used for Base Pressure Indexes and the instrument is mounted on the meter in place of the standard register.

In operation the volume passed through the meter is registered on the counter index and at the same time the demand pointer indicates the volume on the scale.

At a preselected time, once every 24 hours, the clock drive, through a suitable gear assembly, operates a cam device which momentarily de-clutches the driving shaft assembly, returning the spring loaded red driving pointer to the zero position, but leaving the black demand pointer up-scale.

For a billing period the demand pointer will indicate the maximum volume for a 24 hour period. The standard reset time for the red driving pointer is 8.00 a.m.; however other reset times, with corresponding dial faces, are available.

AMERICAN MODEL "LOW PRESSURE" INDICATING
DEMAND METER



Description (Con'd)

The "Low Pressure" demand meter may be used on any approved diaphragm or rotary type positive displacement gas meter, provided it is properly matched to the meter. Several combinations of change gears and assemblies for the indicator scales are available for that purpose.

The applicable demand scale and cyclometer register multipliers are clearly marked on the instrument.

The demand meter shall be sealed by the utility at all times when in use for billing purposes.

For field testing the demand meter, the volume registered by the cyclometer counter is compared with the volume indicated on the demand scale by the black pointer.

It may be necessary to return the red driving pointer to the zero position, prior to testing, by manually de-clutching a small spring loaded gear located underneath at the bottom section of the demand register. Both pointers should coincide at zero when the test begins. It is important that during the testing the drive shaft is rotated in the direction of increasing counter registration. The demand pointer should reach at least 70% of the scale range when its volume is compared to the counter index volume. The two volumes should be within + 1.0 per cent of full scale of (the demand meter.)
each other.

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

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