Consumer and Corporate Affairs
Consommation et corporations

Standards
Normes

NOTICE OF APPROVAL
AVIS D'APPROBATION

G-79-1

Ottawa, January 19, 1979

MERCURY INSTRUMENTS, INC., MERCOR III-T TEMPERATURE COMPENSATING VOLUME INTEGRATOR

This approval is supplementary to Notice of Approval G-79 dated May 5, 1971.

Apparatus

Approval has been granted for the inclusion of an additional temperature range and additional capacities per revolution of the input shaft.

Additional temperature range: $0^{\circ}F$ to $+100^{\circ}F$

Volume registers:
The volume represented by the last digit on the registers depends on the volume per revolution of the meter's drive shaft, as below.

Volume Output of Meter Drive Shaft, cu ft/rev.	Uncompensated Volume Increments on Counter, cu.ft.	Compensated Volume Increments on Counter, cu.ft.
10*	1	10
100	10	100
1000	100	1000

* This capacity per revolution is covered by circular G-79.

TEMPERATURE DRUM CALIBRATION TABLE

Range 0^{o}-100^{o}F
Base Temperature 60^{o}F

Temperature ^{o}F	Counter Reading Per 10 Drum Revolutions
0	226.09
10	221.28
20	216.67
32	211.38
40	208.00
50	203.92
60	200.00
70	196.23
80	192.59
90	189.09
100	185.71

Description

Inclusion of the additional temperature range involves only a change to the temperature element and the drum. The only change necessary for the inclusion of additional drive shaft capacities is the multiplying factor applied to the uncorrected and corrected counter readings, which is accomplished by placing the appropriate multiplication factor label on the counter.

In applications involving Pressure Factor Measurement the requirement stipulated in the first paragraph on page five of Circular G-79 does not apply.

Approval G-79 has been granted to Parkinson Cowan (Canada) Ltd. presently not representing Mercury Instruments Inc. in Canada.

Approval granted to: Baker Instruments, Limited,
Thornhill, Ontario

Foothills Industrial Products,
Calgary, Alberta

D. L. Smith, P.Eng.,
Chief,
Electricity and Gas Division

Ref: G 6635-M7-44