Department of consumer and corporate affairs/Ministère de la consommation et des corporations

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL
AVIS D'APPROBATION

G-106

OTTAWA March 26, 1974.

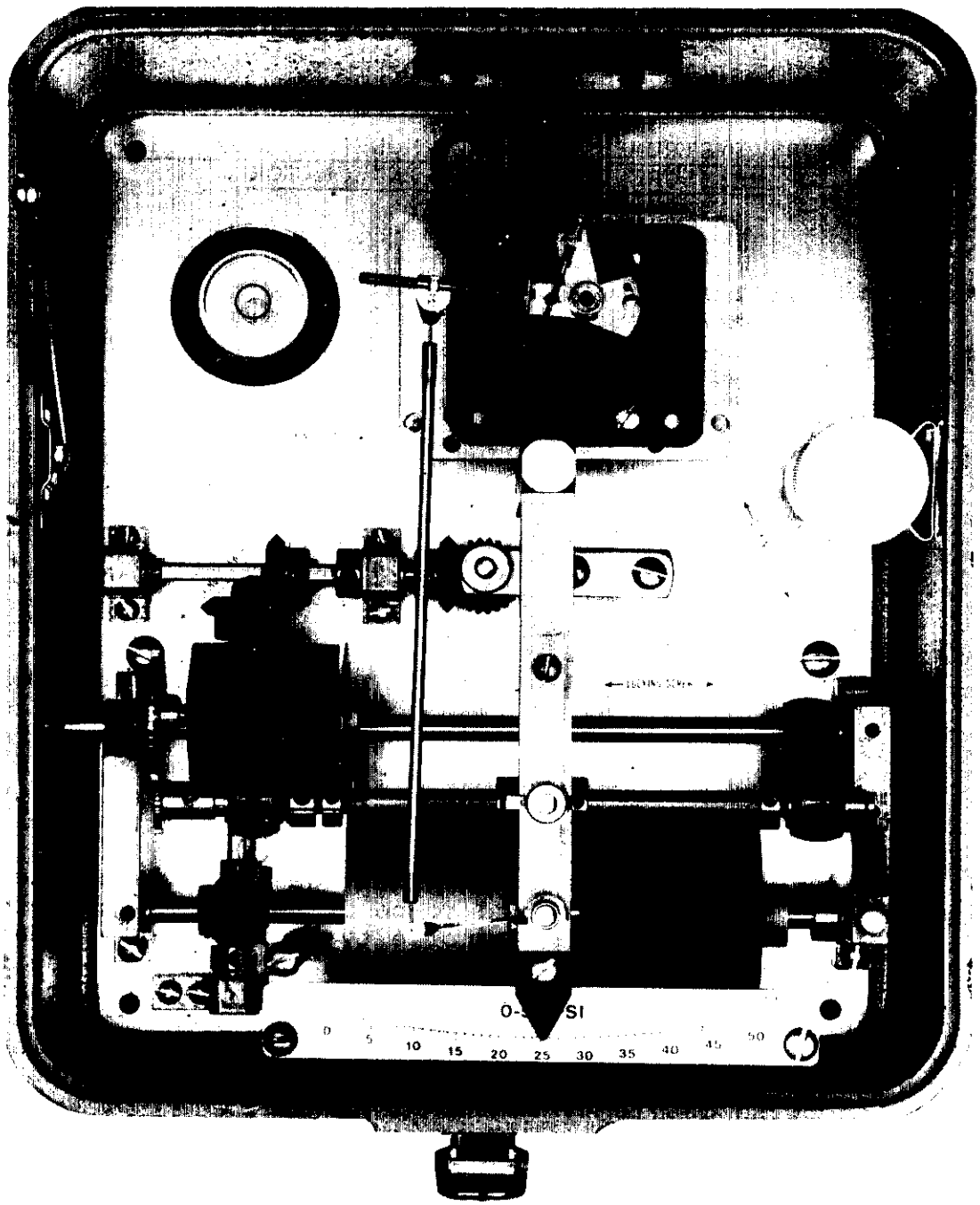
MERCURY INSTRUMENTS, INC., MODEL MERCOR III P PRESSURE CORRECTING INTEGRATOR

Apparatus

Static pressure ranges			
(i)	Diaphragm element	:	0-30 psig
(ii)	Helical Bourdon Ni-Span-C elements	:	0-50, 0-60, 0-100, 0-250 0-1000 psig
(iii)	Suppressed Range	:	200-1000 psig
Registers			
(i)	Uncorrected (line conditions)	:	Clock-type, available with 5, 10, 100 or 1000 cu. ft. per rev. test dial
(ii)	Corrected (base pressure conditions)		Plastic, Veeder-Root No. 728137 7 digit capacity
Supercompressibility factor			Based on data supplied by utility viz: % of diluents, sp. gr., flowing temperature range, pressure range

Description

The Mercor III P is an auxiliary gas measurement device intended for attachment to, and to be driven by, a gas meter (either diaphragm, rotary or turbine type). The instrument replaces the standard register. Its function is to sense the flowing pressure being metered and to automatically correct the registration of the meter so as to provide an integrated read-out at specified base conditions. The device can also incorporate a supercompressibility correction referred to a constant flowing gas temperature.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Approval Notice G-56-1, October 16, 1973 covering the Mercor III PT Volume Correcting Integrator describes the operation of the pressure element of that device and the essential description of the Mercor III P.

The Mercor III P is equipped with a clock-type register which incorporates reversible gearing to match the direction of rotation of the output shaft of the meter.

For installation and operation, careful adherence must be made to the company's manual of instructions.

Each instrument shall have the following information marked on the nameplate or nameplates:

- Manufacturer's name
- Instrument model designation
- Serial Number
- Pressure range
- Base Pressure
- Average Atmospheric Pressure
- Supercompressibility correction factor
- Applicable multipliers for registers

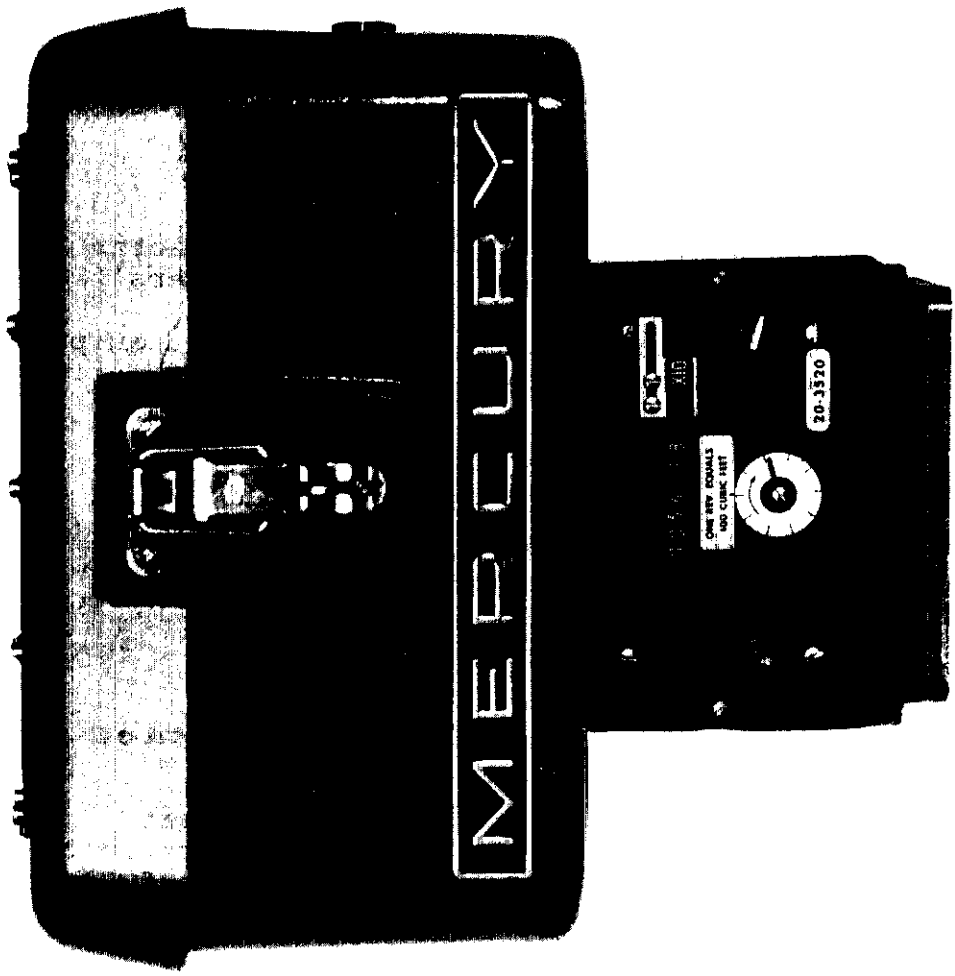
Where the instrument and other auxiliary equipment are exposed to solar heating, the application of reflective paint is recommended.

Approval granted to:

Parkinson Cowan (Canada) Ltd.,
Chatham, Ontario.

J.L. Armstrong
Chief, Standards Laboratory,
Metrology and Laboratory Services

W.J.S. Fraser
Chief, Electricity & Gas Division,
Metrology and Laboratory Services


MERCURY
20-3320
ONE REV. EQUALS
100 CUBIC FEET