



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



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

G-49

OTTAWA June 2, 1969.

CANADIAN, 9-INCH PRESSURE AND TEMPERATURE RECORDERS,
TYPES P, T, PP, TT, AND PT

Apparatus

PRESSURE ELEMENTS:

<u>TYPE</u>	<u>RANGES</u>
Slack diaphragm	0-30" wg and 0-3 psig
Bellows	0-5 psig to 0-15 psig
Spiral Bourdon: (a) Phosphor Bronze	0-20 psig to 0-500 psig
(b) Beryllium Copper	0-1000 psig to 0-3000 psig
(c) Stainless Steel #316	0-20 psig to 0-3000 psig

Mercury Filled Temperature Systems

Class YA, fully compensated, capillary length up to 200 ft.
Class YB, case compensated, capillary length up to 15 ft
Temp. Ranges: -30° to +120°F, 0° to +100°F and 0° to +150°F

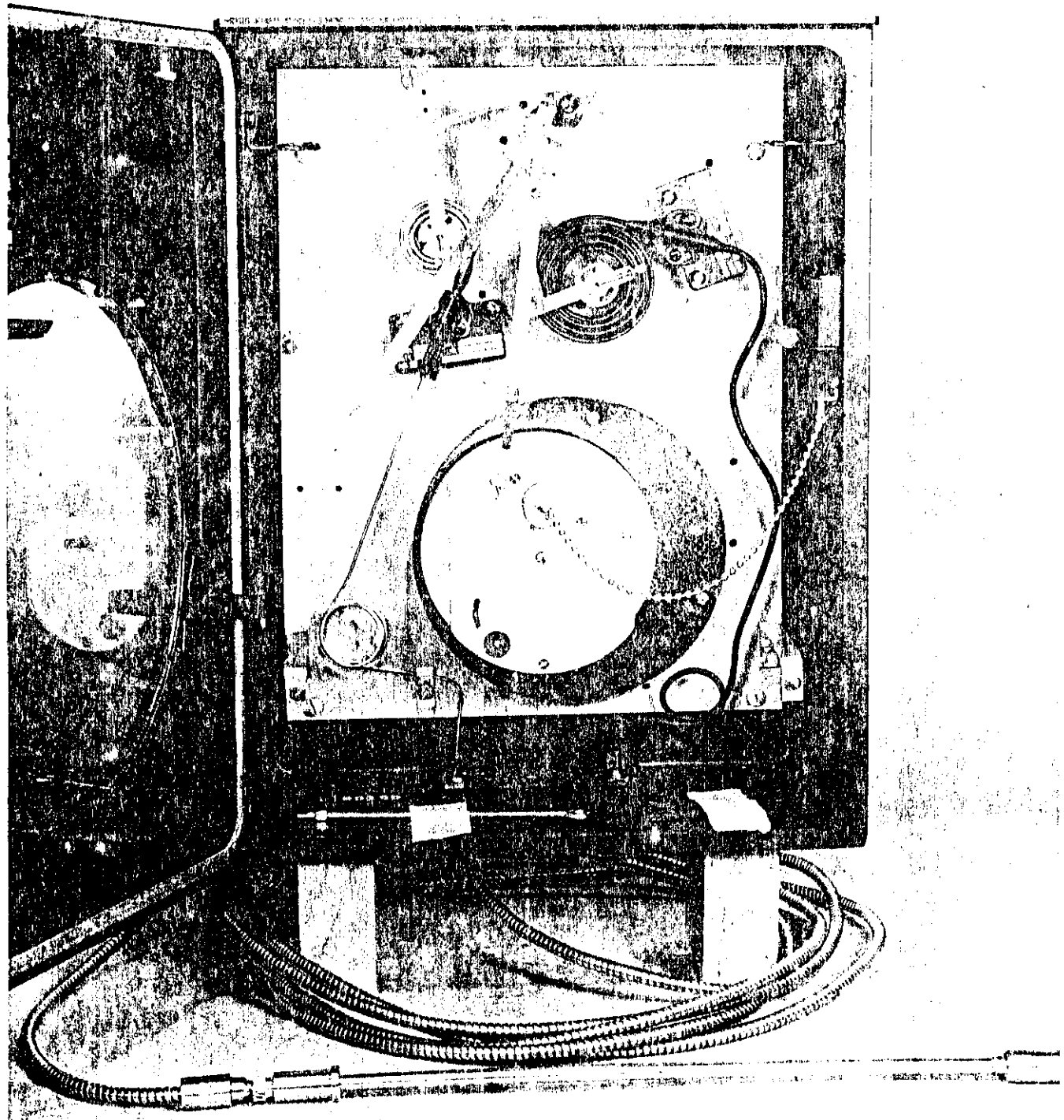
Chart Drives

Approved for rotational period of 24 hrs or 7 days.

Charts

Circular, 9 inch size, with radial distance of printed scale not less than 3¼ inches.

CANADIAN, 9-INCH PRESSURE AND TEMPERATURE RECORDERS, TYPES P, T, PP, TT
AND PT



TYPE DESIGNATIONS

P - single pen pressure
T - single pen temperature
PP - double pen, two ranges of pressure
TT - double pen, two ranges of temperature
PT - double pen, one for pressure and other for temperature.

Description

The Canadian 9-inch Recorder under the various type designations listed above may be readily adapted for either portable use or permanent installation.

This instrument can be assembled to be either a single pen pressure or temperature recorder, or any two-pen combination as required for gas measurement purposes.

The spiral Bourdon and bellows type pressure elements are mounted inside the recorder's case, whereas the slack diaphragm element is mounted externally at the rear of the case. The latter element uses a molded 5-inch diameter synthetic diaphragm clamped between anodized aluminum clam shell housings. The range spring is of Ni-Span C metal. A suitable linkage system transmits the movement of the diaphragm to the recording pen.

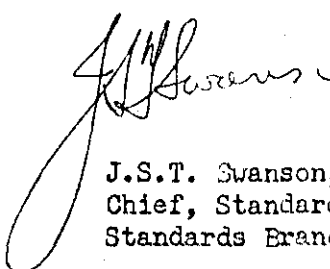
Temperature elements may be of either of two types as indicated above. For case compensation, a bi-metallic element is used in the pen linkage attached to the temperature element. A fully compensated temperature system combines case compensation with an Invar type capillary tube compensator.

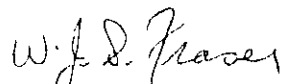
Each recorder has a nameplate which shall contain the following information:

Maker's name, Recorder's type designation, Serial number, Pressure and/or Temperature range with appropriate units, Rotational period of the chart drive and chart's identification number.

Approval granted to:

Canadian Meter Company Limited,
Milton, Ontario
and
Edmonton, Alberta.


J.S.T. Swanson, P. Eng.,
Chief, Standards Laboratory,
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Chief, Electricity and Gas Division,
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AND PL.

