



TRADE AND COMMERCE  
CANADA

STANDARDS BRANCH

OTTAWA.....February 28, 1962.....

TYPE APPROVAL

PALMER TYPE SK-45-12120 TEMPERATURE RECORDER

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Gas Inspection Act, Chapter 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Temperature Recorder, Type SK-45-12120, manufactured by Palmer Thermometers, Inc., Cincinnati 12, Ohio, U.S.A. and distributed in Canada by Brooks Instrument Canada Limited, 32A Howden Road, Scarborough, Ontario.

Range of Apparatus:

Temperature Range ..... -40°F to +150°F  
Maximum length of capillary tubing ..... 12 feet  
Maximum temperature span ..... 120°F

Application: Measurement in distribution service of heating gases.

Description: The die-cast aluminum rectangular recorder case may be either wall or flush mounted. The case-compensated, mercury-filled thermal system comprises a stainless steel bulb and protecting well, a length of armoured capillary tubing connecting to an Invar rod and steel sleeve compensator which in turn connects to a flat Bourdon coil. Angular displacements of the free end of this coil are transferred through a linkage system into the pen movements on a recording chart.

The recorder may include chart drives of either:

- a) Spring-wound types with rotational speeds of 24 hours, 7 days or 8 days per revolution; or
- b) Synchronous electrical drives, rated for 110 volts, 60 cycles per second providing rotational speeds as for mechanical drives above.

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