DEPARTMENT OF

TRADE AND COMMERCE
CANADA

SD-EA.99

STANDARDS DIVISION

OTTAWA, March 19, 1953.

TYPE APPROVAL

BRISTOL TYPE PH560 "DYNAMASTER" MULTI-POINT RECORDING POTENTIOMETER

The apparatus specified and illustrated herein has been duly approved by the Standards Division under the provisions of The Electricity Inspection Act, Chap.22, 1928, as amended, and may be admitted to verification in Canada.

Apparatus Approved: Type PH560 "Dynamaster" Multi-point Recording Potentiometer, manufactured by The Bristol Company, Waterbury, Conn., U.S.A., and distributed in Canada by The Bristol Company of Canada Limited, 71-79 Duchess Street, Toronto 2, Ontario.

Rating of Apparatus: Input - The instrument may be adapted to operate on practically any variable D.C. voltage input.

Measuring System Speed: 20, 7 or 3 seconds.

Chart: Roll chart 12¼" wide.

Number of Records: 2, 3, 4, 6, 8, 12 or 16.

Type of Records: On Instruments making 2, 3, 4 or 6 Records

1. Contrasting coloured dots printed from ink pads
2. Contrasting coloured dots and numbers printed from ink pads

On Instruments making 2, 3, 4, 6, 8, 12 or 16 Records

3. Purple dots and numbers printed from ink pads.

Printing Speeds: Standard printing intervals between points 4.6, 8, 15, or 30 seconds.

Chart Speed: ¾, 1, 1½, 2, 3, 4, 4½, 6, 9, 12, 18 and 24 inches per hour, and ⅜, ½, ¾, 1, 1½, 2¼, 3, 4½, 6, 15, 20, 30, 40, 60, 90 and 120 inches per minute.

Supply: 120 volts; 25 to 60 cycles.

Description: This instrument is identical with respect to measuring circuit, amplifier, balancing motor and slide wire to the single-point model PH560 already approved under Circular SD-EA.82 of June 30, 1952.

The instrument is equipped with a rotary self-cleaning multiple switch which has low-resistance silver alloy contacts and blades. It is completely enclosed and located on the back of the swinging panel where it is easily accessible. Its function is to select the measured variables in turn. Working in conjunction with the rotary switch is a printing mechanism consisting of an engraved print wheel and felt inking pad assembly. The switching and printing mechanism is driven by a high torque, synchronous motor, equipped with permanently lubricated ball and needle bearings.

Any type PH560 "Dynamaster" recording potentiometer covered by this approval notice or by SD-EA.82 may be equipped with a constant voltage device. The constant voltage device is used in place of the automatic standardizing mechanism and dry-cell battery in some "Dynamaster" potentiometers. It is a device which operates from the a-c power supply and furnishes a constant d-c potential to the potentiometer circuit. The constant voltage device completely eliminates the need for a battery and standardizing mechanism, and thereby considerably simplifies the instrument.

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Ref: A-258A

PRINTING MARKER AND CHART
FOR
BRISTOL MULTI-POINT TYPE PH560 "DYNAMASTER"