



CANADA

DEPARTMENT OF TRADE AND COMMERCE
STANDARDS DIVISION

SD-GA.2

OTTAWA, October 18, 1948.

NOTIFICATION OF TYPE APPROVAL

The apparatus specified and illustrated herein has been duly approved under the provisions of the appropriate Act, and may be admitted to verification in Canada.

Authority:- The Gas Inspection Act, Chapter 82, R.S. 1927.

Apparatus Approved:- Type "4-100" Flow Meter Combination Differential and Static Pressure Recording Gauge, manufactured by the Foxboro Company, Foxboro, Mass., and distributed in Canada by Peacock Bros., Limited, Montreal, P.Q.

Application:- Measurement of manufactured or natural gas in conjunction with standard orifice plates inserted in the gas line.

Rating of Apparatus:- 0-100 inches (water) Differential Pressure,
0-500 ps. per square inch Static Pressure.

Conditions:- Approval granted provided that a plate, bearing the maker's name, serial number, range, and type designation, be permanently attached in a prominent position outside the case.

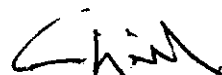
Description:- The differential pressure recording element consists of a mercury U tube with enlarged chambers in the upper portions to accommodate the float and the displaced mercury. Motion of the float is transmitted to the pen-arm by a special segmental lever, giving straight-line relation between displacement of float and angular movement of the pen-arm. Check valves are provided in each leg of the U tube to prevent "blowing of the mercury" under abnormal conditions, and an adjustable damping plug is located in the base of the U to provide variable damping action against pulsation.

The static pressure movement consists of a Bourdon tube in the form of a helical spring operating directly on the static pen-arm.

Charts are available for either a 24-hour or a 7-day period per revolution.

Testing:- Registrations of both differential and static pressure elements are to be checked at zero, 25%, 50%, and 100% points on the chart.


L. V. Hunt,
Chief Engineer


A. F. Gill,
Director of Standards