



S.GA-282

DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

OTTAWA, January 30th, 1964

TYPE APPROVAL

FOXBORO PNEUMATIC DIFFERENTIAL PRESSURE
TELEMETERING SYSTEM

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

Apparatus Approved: Type 13A (Non Indicating) Differential Pressure Cell-transmitter and Receiving Recorder, manufactured and distributed in Canada by The Foxboro Company Limited, La Salle, P. Q.

Rating of Apparatus:

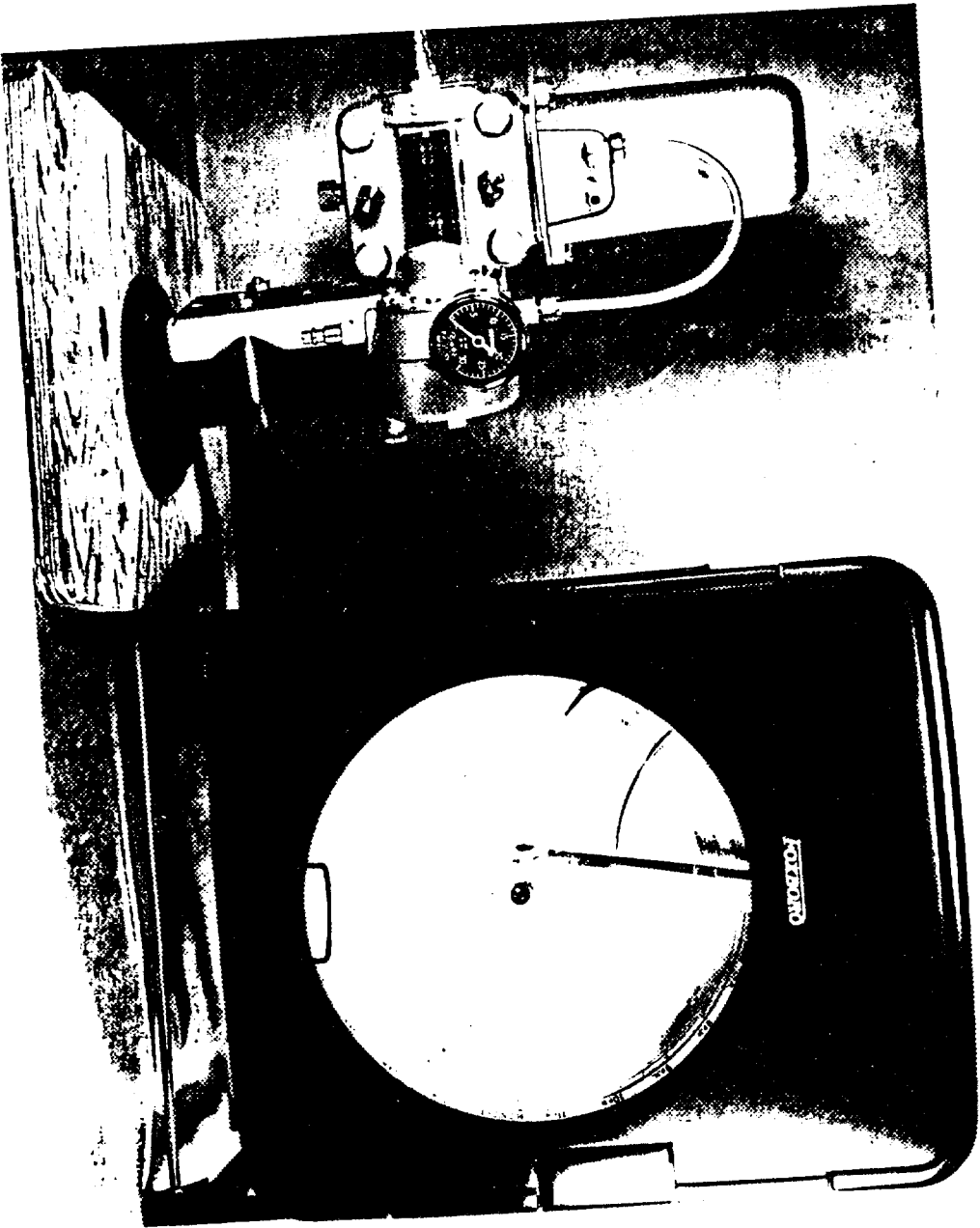
Differential Pressure Ranges from 0-20 "H ₂ O to 0-205" H ₂ O	
Working Pressure (D/p Cell)	1500 p.s.i.
Air Supply Pressure (Regulated, Filtered & Dried)	20-25 p.s.i.
Air Signal Pressure	3-15 p.s.i.
Maximum Length of signal pressure line	200 ft.
Ambient temperature limits for Transmitter	-20°F. to +150°F.
Ambient temperature limits for Recorder	-20°F. to +150°F.
Chart Drive	Spring Wound or Electric 115V. 60 cycle.
Chart Speed	24 hour or 7 day per rev.
Air Signal line	½" O.D.
Connections	Female ½" N.P.T. Bottom and Side connected.

Static Pressure Ranges.

Range	Type	Element	Material
0-30 p.s.i.	210	Bellows	Stainless Steel (316)
0-300 p.s.i.	230	Spiral	Stainless Steel (316)
0-1500 p.s.i.	240	Helical	Stainless Steel (316) Bronze, Beryllium Copper, N-Span C. Alloy

Description: The D/p Cell transmitter is a differential pressure measuring device producing air signal pressures proportional to the applied differential pressure. It consists of the two (2) basic assemblies:-

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- (a) The capsule type differential pressure element with a force bar suitably connected to the capsule and providing a "force" output proportional to the differential pressure:
- (b) The "force to air signal pressure" translator which includes a flapper-nozzle assembly, feedback bellows, pneumatic relay and a range bar assembly facilitating continuous adjustment of the total span from 20" to 205" w.g.

In operation the movement of the force bar translated through a flexure to the range bar provides, in conjunction with suitably interconnected components, an output signal pressure ranging from 3 to 15 p.s.i. and corresponding to the applied differential pressure. The receiver recorder for differential pressure may include a static pressure element with associated linkage system and recording pen.

This recorder may be equipped with either Foxboro mechanical or electric approved chart drives.

E. F. Power

E. F. Power,
Chief, Electricity & Gas Division,
Standards Branch.

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Ref: SL-100-16

