

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



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL AVIS D'APPROBATION

G-96

OTTAWA August 7, 1973

ROSEMOUNT "ALPHALINE D. P. TRANSMITTER" MODEL 1151 DP.

APPARATUS

Differential pressure ranges:

Adjustable within the following limits:

4 to 20 mA.D.C. - 15 to 45 volts D.C.

10 to 50 mA.D.C. - 30 to 85 volts D.C.

(i) 0-5 to 0-30 inches w.c.

(ii) 0-25 to 0-150 inches w.c.

(iii) 0-125 to 0-750 inches w.c.

Output current-Power supply voltage

Ambient temperature limits
Working pressure
Max. loop resistance,
4/20mA output
Max. loop resistance,
10/50mA output
Connections

1550 ohms

1100 ohms

 $\frac{1}{4}$ -NPT on 2 1/8" centers on flanges $\frac{1}{2}$ -NPT on 2", 2 1/8" or $\frac{1}{4}$ " centers

with adaptors

-20°F to +200°F

up to 5000 psig

1/2 inch conduit with screw terminals

Electrical connections

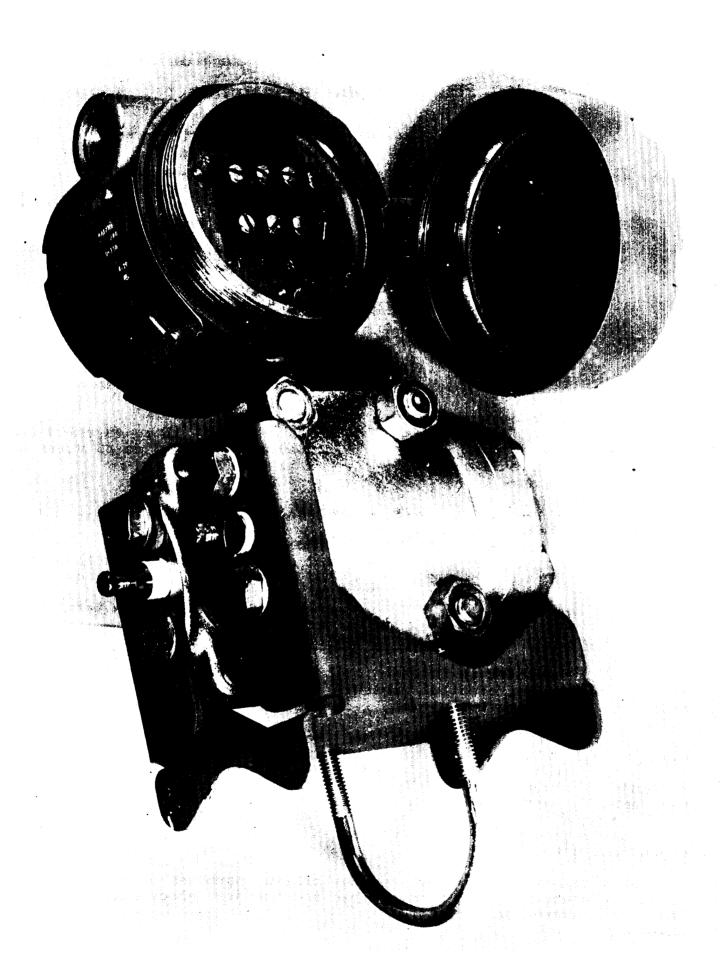
DESCRIPTION

This transmitter is intended to be used where a continuous registration of differential pressure is required for gas flow or passed gas volume evaluation, i.e. recorders or computers.

Pressure is transmitted through isolating diaphragms with silicone oil fill to a sensing diaphragm in the center of the cell. The sensing diaphragm is a spring element which deflects in response to applied pressure, this deflection being 0.004 inches maximum. The position of the sensing diaphragm is detected by capacitor plates on both sides of the diaphragm. The change in capacitance is electronically converted to a 4-20 mA or 10-50 mA.D.C. output current.

This transmitter is approved for billing purposes only when used in conjunction with a compatible and approved electronic gas flow computer or recorder.

CCA-873 (11-71)



Each transmitter shall have a nameplate with the following information:

- Manufacturers! name or trade mark
- 2. Model designation
- Serial number
- Calibrated pressure range
- 5. Output current
- Supply voltage

Both bolts fastening the nameplate to the body shall have provisions for sealing to prevent unauthorized use of adjustments covered by the plate.

Approval granted to:

Willer Engineering Limited, Toronto, Ontario and Rosemount Inc., Minneapolis, Minn. U.S.A.

(for) Chief, Standards Laboratory,

Standards Branch.

W.J. J. Fraver

W.J.S. Fraser, Chief, Electricity and Gas Division, Standards Branch.

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