



TRADE AND COMMERCE  
CANADA

S-GA.297

STANDARDS DIVISION

OTTAWA July 15, 1964.

TYPE APPROVAL

TAYLOR TRANSCOPE TYPES 212T and 213T  
DIFFERENTIAL PRESSURE TRANSMITTERS

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: Transcope Differential Pressure Transmitters Types 212T\* and 213T\* manufactured and distributed in Canada by Taylor Instrument Companies of Canada Limited, Toronto, Ontario.

\* NOTE: These types have been previously approved for a signal pressure output proportional to the applied differential pressure under Circular S-GA.294, dated June 10, 1964. Present approval covers these transmitters for a signal pressure output which is proportional to the square root of the applied differential pressure.

- Rating of Apparatus:
- (a) Differential Pressure:
    - (i) Standard Range (continuously adjustable) ..0-20 to -175 inches water gauge.
    - (ii) Low Range (continuously adjustable) .....0-5 to 0-50 inches water gauge.
  - (b) Working Pressures:
    - (i) Standard Range ..... 1500 p.s.i.
    - (ii) Low Range ..... 500 p.s.i.

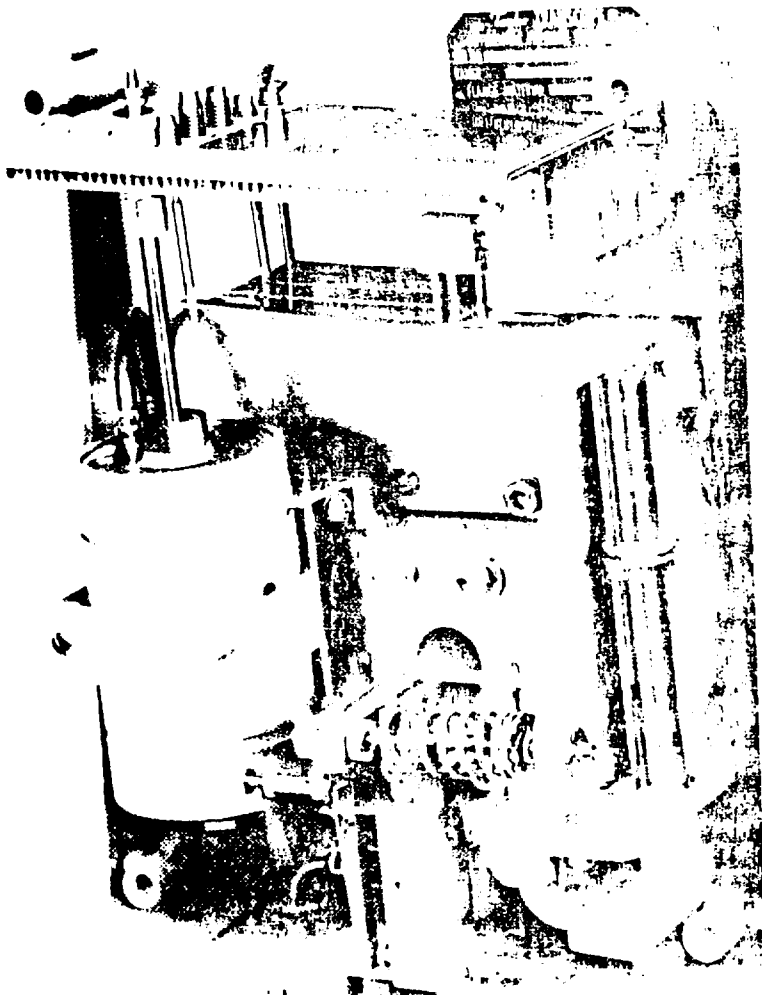
Materials for Differential Pressure element .....Carbon Steel or Stainless Steel #316.  
 Regulated Air Supply (Filtered and Dried) ..... 18-25 p.s.i.  
 Output Signal Pressure ..... 3-15 p.s.i.  
 Ambient Temperature limits ..... -20°F to + 150°F.  
 Connections ..... 1/4" N.P.T.Female, side and bottom connected.

Description: For a general description of these transmitters and their basic operation, refer to Circular S-GA.294, dated June 10, 1964.

To operate these transmitters for a signal pressure output proportional to the differential pressure (DP Form), three feed-back springs are adjusted to engage continually with the connecting mechanism throughout the full output span.



TAYLOR TRANSCOPE TYPES 2111 and 2112  
DIFFERENTIAL PRESSURE TRANSMITTERS



2111



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## Description (Con'd.)

The illustration on the back of this circular shows type 213T Transcope Transmitter adjusted for linear response with three springs engaged.

When these transmitters are to supply a signal pressure output proportional to the square root of the differential pressure (Flow Form), five feed-back springs are required and are adjusted to engage with the connecting mechanism in sequence throughout the operating range. This produces a square root relationship between the output signal pressure and the applied differential pressure.

The type of response provided by these transmitters, as well as other information, is contained in the serial number stamped on the nameplate.

For example, a Serial No. 213TD11011-2840 would be subdivided into 213T-D-1-1-0-11-2840 with the following meaning:

213T	Basic Catalogue No.	- Transcope Blind Flow/DP Transmitter
D	Actuation	- Differential Pressure
1	Material and Construction	- 1 for Carbon Steel 2 for Stainless Steel #316
1	Calibration	- 1 for linear response 2 for square root response
0	Accessories	- None
11	Range Span and Working Pressure	- 11 for 20" to 250" w g linear, 1500 p.s.i. - 12 for 20" to 175" w g square root, 1500 p.s.i.
2840	Basic Serial number.	

This approval covers the use of these transmitters with any approved Taylor Receiving Recorder to provide a Taylor pneumatic telemetering system.

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