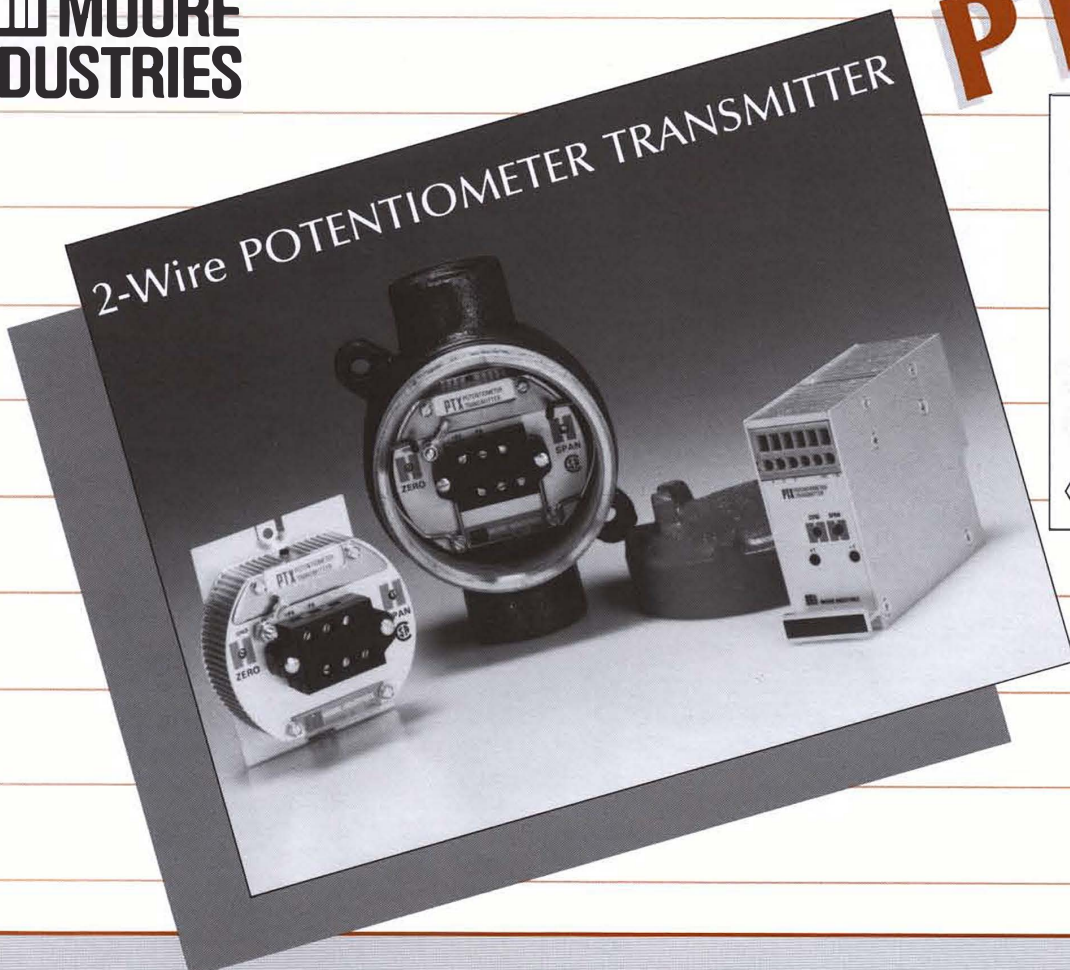




**PTX**



**Certifications**

**CSA**, General location; hazardous, Class I, Group B, C, D; Intrinsic Safety, Class I, Group D

**Cenelec Flameproof**  
Code: EExd IIc T6  
Cert. No. 86, 103, 522

**HIGH DENSITY INSTALLATION**

Compact "Hockey Puck" or Rail-Mount Housings

**COMPLETE RFI PROTECTION**

Exceeds SAMA Standard

**VERSATILE MOUNTING**

Relay Track, DIN Rail, or Explosion-Proof

**HIGH ACCURACY**

±0.1% of Span

The Moore Industries Model PTX, 2-wire potentiometer transmitter, provides excitation to a 3-wire potentiometer and provides a current output proportional to the position of the pot wiper.

A typical application would be indication of valve position. By mounting the PTX in an appropriate enclosure, it can be installed in the field, adjacent to the valve. (Note: For sidewire applications refer to the RBX data sheet.)

The PTX is available in either of two extruded aluminum housings: Hockey Puck (HP) or Rail-

Mount (DIN-style). In the compact HP housing, the PTX slips into a standard explosion-proof enclosure without drilling or tapping. In the DIN-style housing, the unit is only 1.4" wide, ideal for high density installation. The rail may be mounted on a wall, in a rack, or in a NEMA enclosure and any number of units can be snapped on, side by side, so that no space is wasted. The PTX can be easily installed in the control room or in the field.

Complete RFI/EMI protection is available for the PTX in either of its housings. For other available options, please consult the Housings, Options, & Accessories brochure.

**PTX—Potentiometer Transmitter**

**INPUT:** 3-wire potentiometer from 0-100 ohms through 0-10,000 ohms. Specify pot value and percentage of pot travel for 0% output and for 100% output (e.g., 1K 15-75%). Minimum span is 15% pot value and maximum offset for 0% is (100%-0%) - 10%

**Sensor Current:** 1mA maximum

**ADJUSTMENTS:** Twenty-two-turn potentiometers

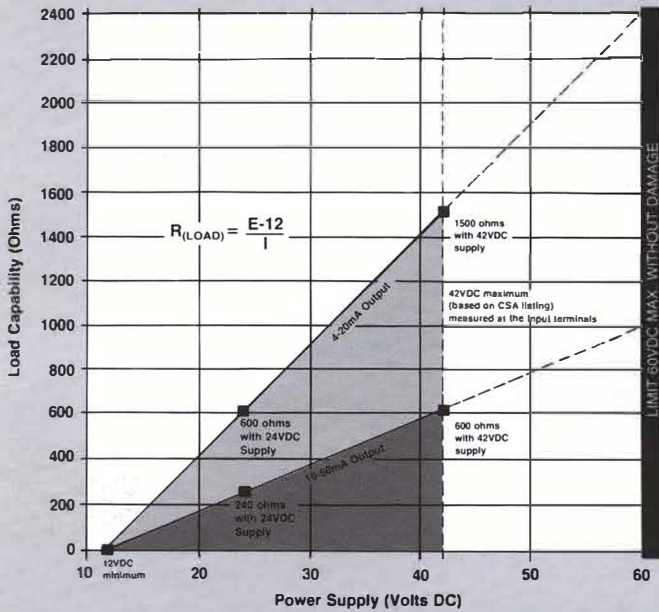
**Span:** Output is adjustable over selected input range from 15% to 100% of pot value

**Zero:** With minimum input, output will adjust to 0%, ±10% of selected output span.

**OUTPUT:**

- 4-20mA (limited to 30mA maximum)
- 10-50mA (limited to 65mA maximum)

**Load Capability:**



**PERFORMANCE:**

**Calibration Capability:** ± 0.1% of span (linearity and repeatability)

**Ambient Temperature:**

Range: -29°C to +82°C (-20°F to +180°F)

Effect: ± 0.01% of span/1°F

**POWER INPUT:** 12Vdc minimum to 42Vdc maximum measured at the input terminals

**Over Voltage:** 60Vdc maximum without damage

**Loop Load Effect:** ± 0.002% of span/volt change measured at the input terminals.

**OPTIONS:**

- FA\* Front accessible terminal block
- ISC Unit is CSA approved intrinsically safe
- RA\* Rear accessible terminal block
- RF RFI filter terminal assembly
- RO Reversed input/output current relationship

\*Must specify FA or RA for DIN units

- RTB Removable terminal block (connector)
- SAA Intrinsic safety Ex 1a IIC T4 (Australia)

**HOUSINGS:**

- DIN Rail mount housing
- FL Aluminum case (HP) with mounting flanges
- HP Aluminum case with spring clips for 3" hub mounting

- EXH4 Explosion-proof, 2 hub, bottom entry
- 2HG\* Explosion-proof, high glass dome, 2 hub
- 3HG\* Explosion-proof, high glass dome, 3 hub
- 2LS\* Explosion-proof, 2 hub
- 3LS\* Explosion-proof, 3 hub

\*Add "P" suffix for 2" pipe mount (e.g. 2LSP)

**WEIGHT:** Approximately 5 oz.

3 lbs. with explosion-proof enclosure

**ORDERING INFORMATION:**

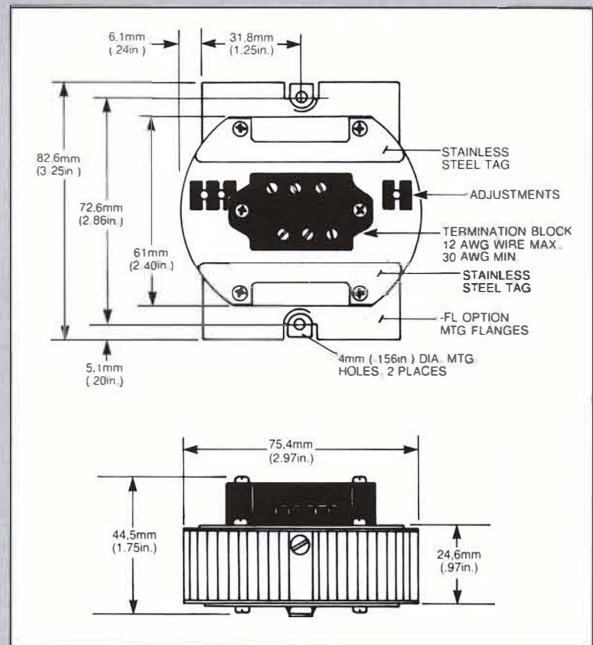
Specify the following:

1. Input—3-wire potentiometer from 0-100 ohms through 0-10,000 ohms. Specify pot value and percentage of pot travel for 0% output and for 100% output (e.g., 1K 25-75%). Minimum span is 25% of pot value.
2. Output—Current range desired
3. Power Input
4. Options
5. Housing

To order DIN rail, consult factory.

**EXAMPLE MODEL NUMBER:**

PTX / 1K-25-75 / 4-20MA / 12-42DC / -FA [DIN]



**HP Housing Dimensions**



United States  
Tel: (818) 894-7111  
FAX: (818) 891-2816

Australia  
Tel: (02) 9525-9177  
FAX: (02) 9525-7296

Belgium  
Tel: 03/235.35.44  
FAX: 03/271.00.17

Netherlands  
Tel: (0)344-617971  
FAX: (0)344-615920

United Kingdom  
Tel: 01293 514488  
FAX: 01293 536852

*The Interface Solution Experts*