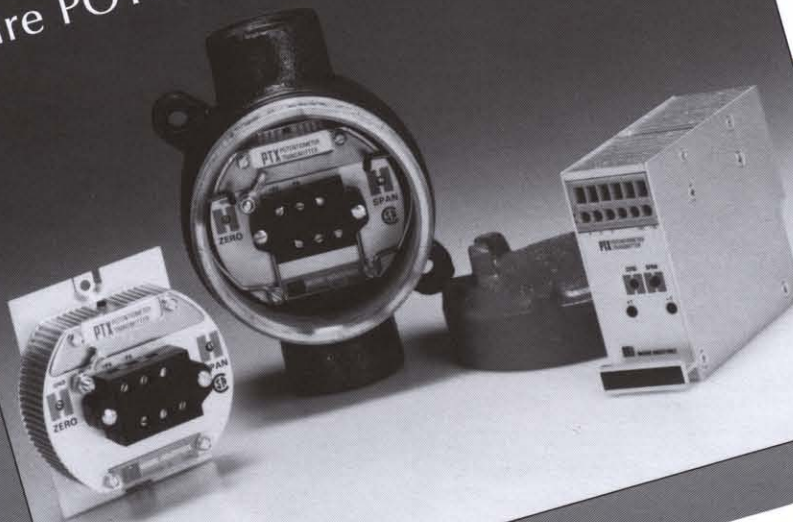




PTX

2-Wire POTENTIOMETER TRANSMITTER



Certifications



CSA, General location;
hazardous, Class I,
Group B, C, D;
Intrinsic Safety, Class I,
Group D
FM, Factory Mutual,
Intrinsic safety, Class I,
Groups A, B, C, D
City of Los Angeles,
General Location



BASEEFA (Cenelec)
Intrinsically Safe
EEx ia IIC T4 Cert.
No. Ex 822175X



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

$\pm 0.1\%$ 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

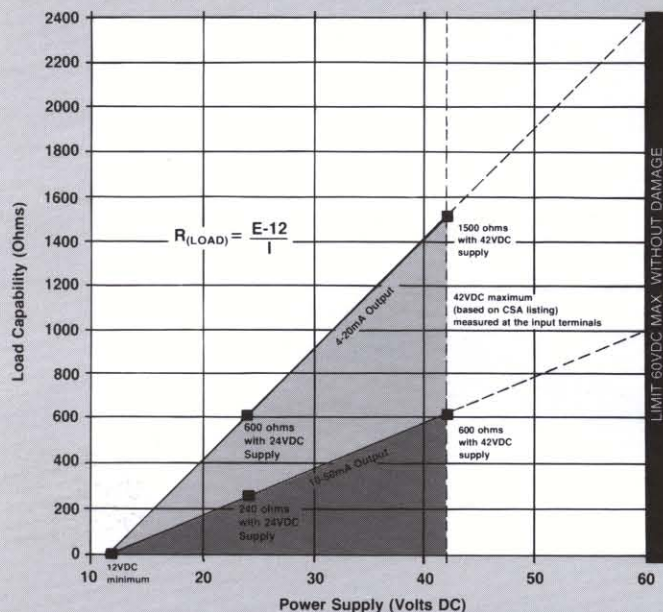
Zero: With minimum input, output will adjust to 0%, $\pm 10\%$ of selected output span.

OUTPUT:

4-20mA (limited to 30mA maximum)

10-50mA (limited to 65mA maximum)

Load Capability:



PERFORMANCE:

Calibration Capability: $\pm 0.1\%$ of span (linearity and repeatability)

Ambient Temperature:

Range: -29°C to $+82^{\circ}\text{C}$ (-20°F to $+180^{\circ}\text{F}$)

Effect: $\pm 0.01\%$ of span/ 1°F

POWER INPUT: 12Vdc minimum to 42Vdc maximum measured at the input terminals (based on CSA listing)

Over Voltage: 60Vdc maximum without damage

Loop Load Effect: $\pm 0.002\%$ of span/volt change measured at the input terminals.

OPTIONS:

- FA* Front accessible terminal block
- ISB Unit is BASEEFA approved intrinsically safe
- ISC Unit is CSA approved intrinsically safe
- ISF Unit is FM 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:

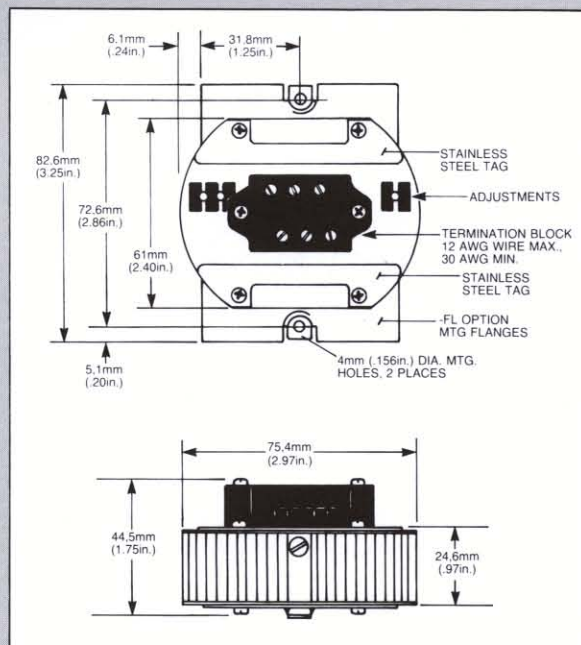
Specify the following:

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