

# PTG 135 - PRECISION PRESSURE TRANSDUCER

# PTG 230 - GENERAL PURPOSE PRESSURE TRANSDUCER

PRESSURE TRANSDUCER

The model PTG 135 (gauge pressure) is designed for rugged industrial applications requiring high accuracy pressure measurements. It is designed with 4 arm 350 ohm strain gage bridge and has welded stainless steel construction. Using a "True Gage" design, the PTG 135 utilizes a second welded diaphragm that hermetically seals the strain gage circuitry which allows the transducer to reference atmospheric pressure.

The PTG 230 is designed as a general purpose industrial pressure transducer. Pressure ranges span from 0.5 to 60,000 PSIG. It has stainless steel construction and utilizes a complete four arm 350 ohm strain gage bridge. The PTG 230 uses standard gage design. The PTA 232 has an internally sealed 0 psia reference.

All transducers have excellent long term stability.

### PTG 135

- HERMETICALLY SEALED
- HIGH ACCURACY
- WELDED DIAPHRAGM
- OPTIONAL AMPLIFIED OUTPUT
- 0.1% FULL SCALE ACCURACY

### PTG 230

- STAINLESS STEEL
- MANY OPTIONS
- 0.5 TO 60,000 PSI
- OPTIONAL AMPLIFIED OUTPUT
- 0.25 FULL SCALE ACCURACY

SPECIFICATIONS	
<b>PTG 135 (High Accuracy)</b>	
PRESSURE RANGES:	1 psig to 60,000 psig
ACCURACY:	± .1% F.S.
MATERIAL:	Stainless Steel
TEMPERATURE RANGE:	60° to 160° F
OUTPUT:	2mV/V ±0.25%
OUTPUT RESISTANCE:	350 ±5 Ohms
BRIDGE RESISTANCE:	350 ohm
EXCITATION:	10 V ac-dc (15V max)
SAFE OVERPRESSURE:	25% to 50% Over Capacity
PRESSURE PORT:	1 to 10,000 psia see chart 15,000 psia to 60,000 psia - 9/16-18UNF per AE F250-C for 1/4 OD High Pressure Tubing
CABLE:	As Required - mating conn. not incl. (PTO6A-10-6S)
<b>PTG 230 (Standard Accuracy)</b>	
PRESSURE RANGES:	0.5 psig to 60,000 psig
LINEARITY:	±0.15% F.S.
HYSTERESIS:	±0.10% F.S.
REPEATABILITY:	±0.05% F.S.
MATERIAL:	Stainless Steel
TEMPERATURE RANGE:	60° to 160° F
OUTPUT:	0.5 psig - 1mv/psig 1 psi to 2 psi - 1-2 mv/v 5 psig to 60,000 psig - 3mv/v
BRIDGE RESISTANCE:	350 ohm
EXCITATION:	10 Vdc
SAFE OVERLOAD:	50% Over Capacity
PRESSURE PORTS:	1-10,000 psig see chart 15,000 psig to 60,000 psig - 9/16-18UNF per AE F250-C for 1/4 OD High Pressure Tubing
CABLE:	As Required - mating conn. not incl. (PTO6A-10-6S)



PTG 135 PRESSURE RANGES	D"	L"
1; 2; 5 psig	2.25	1.81
10; 15 psig	1.75	2.00
25; 50; 75; 100; 150; 200; 300; 500 psig	1.50	2.01
750; 1000; 1500, 2000, 3000; 5000 psig	1.50	2.35
7500; 10,000 psig	1.50	2.39
15,000; 20,000; 30,000; 50,000; 60,000 psig	1.50	2.21

PTG 230 PRESSURE RANGES	D"	L"
5	2.25	2.09
10, 15, 25, 50, 75, 100, 150, 200, 300, 500, 750	1.50	2.09
1000, 1500	1.50	2.35
2000, 3000, 5000, 7500, 10,000	1.50	2.39
15,000, 20,000, 30,000, 50,000, 60,000	1.50	2.21

\*Consult Cooper

Order Code Example:  
PTG 135-G-XXX-M

Pressure Port Connection (M or F)  
Ex: PA = 1/4 NPT female  
PB = 1/4 NPT male  
PC = 7/16-20 female per MS33649-04  
PD = 7/16-20 male per MS33656-04

Pressure Range

Pressure Reference: G=Gage (psig), A=Absolute (psia)

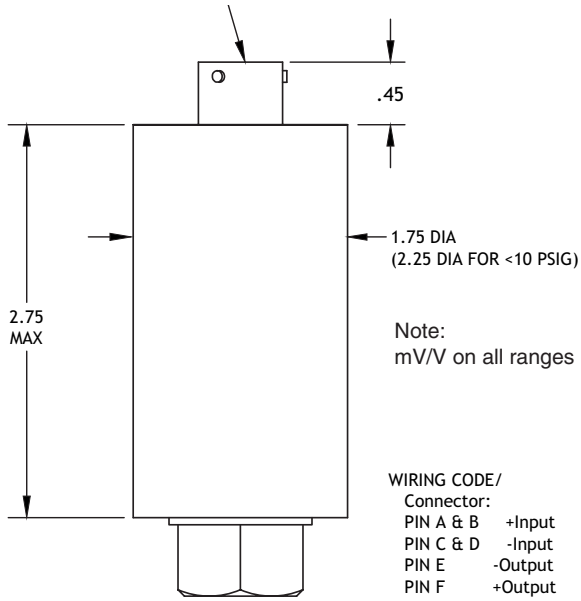
Accuracy Class

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## LOW RANGE MV/V

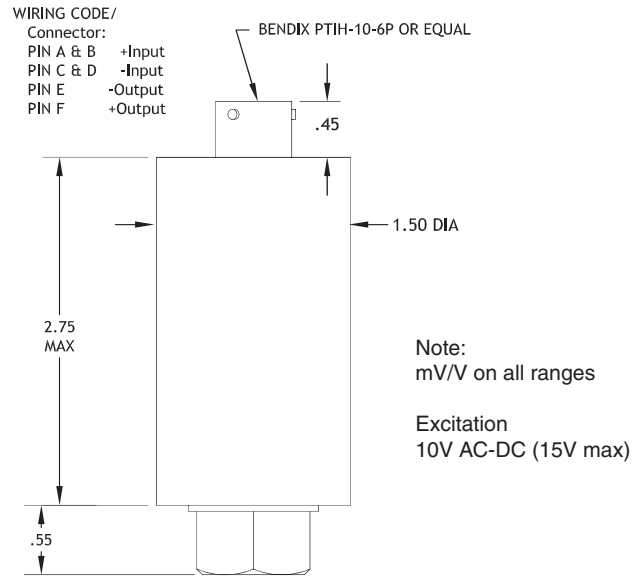
Pressure Ranges 0-0.5 to 0-20 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.

## MID RANGE MV/V

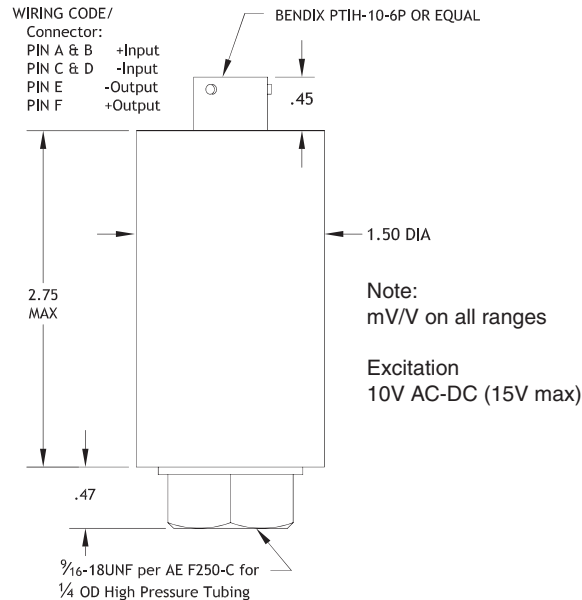
Pressure Ranges 0-25 to 0-10,000 psi



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## HIGH RANGE MV/V

Pressure Ranges 0-15,000 to 0-60,000 psi



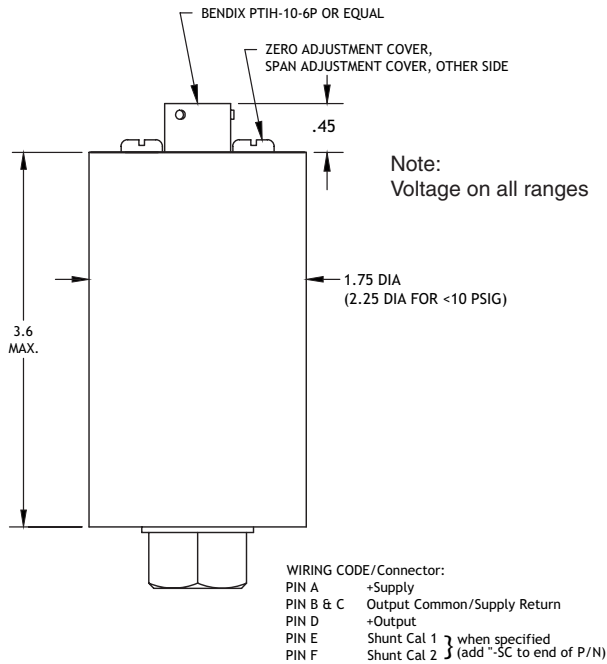
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## LOW RANGE VOLTAGE

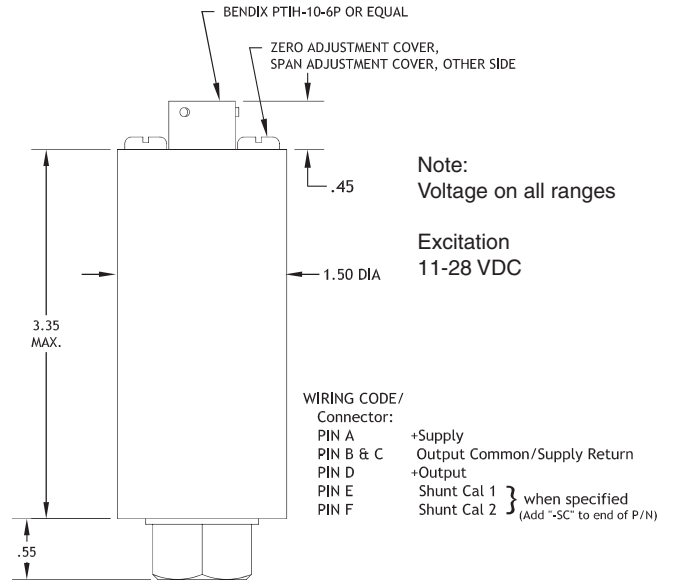
Pressure Ranges 0-0.5 to 0-20 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.

## MID RANGE VOLTAGE

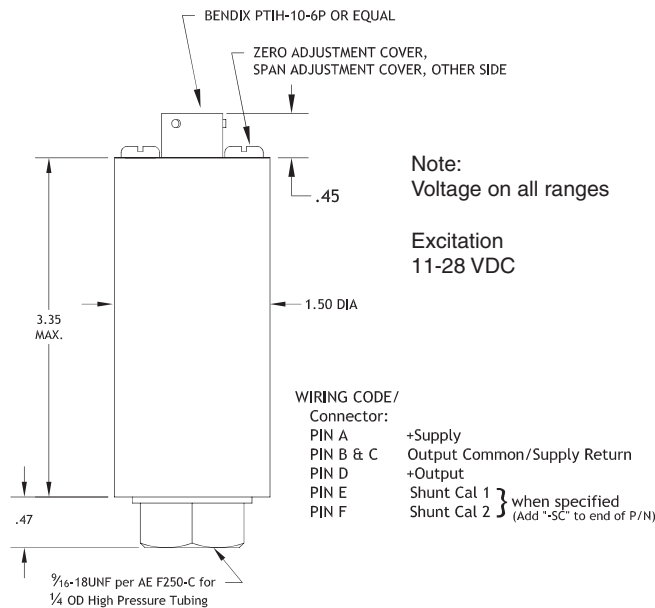
Pressure Ranges 0-25 to 0-10,000 psi



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## HIGH RANGE VOLTAGE

Pressure Ranges 0-15,000 to 0-60,000 psi

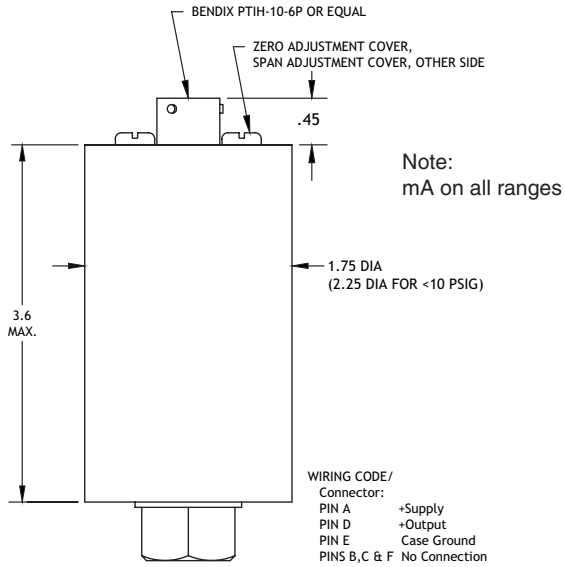


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## LOW RANGE CURRENT

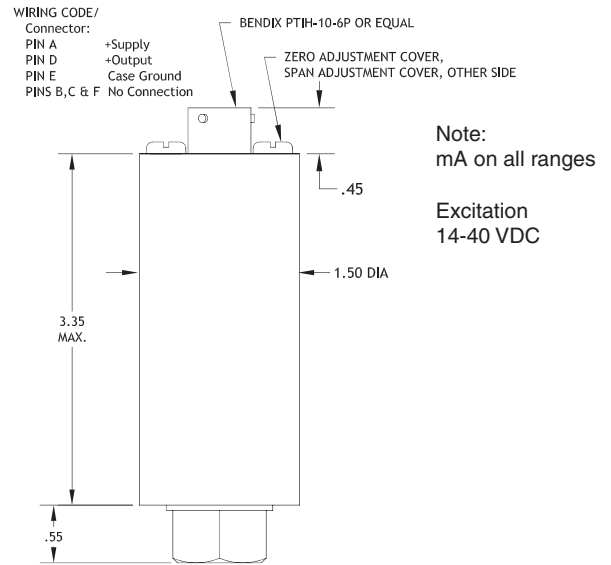
Pressure Ranges 0-1 to 0-20 psi



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## MID RANGE CURRENT

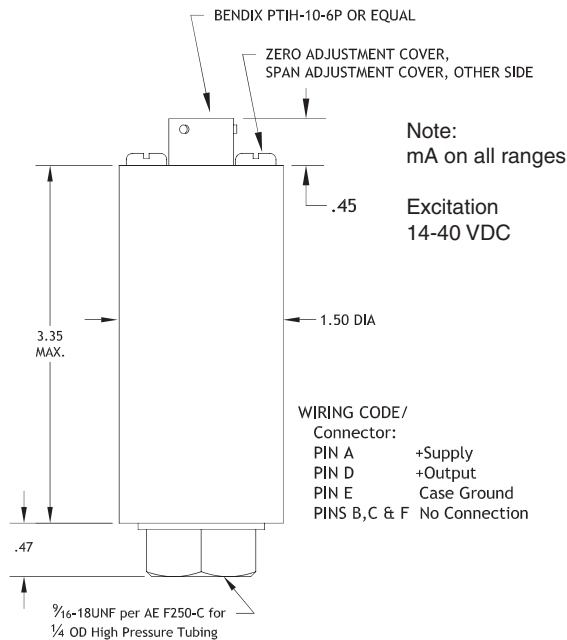
Pressure Ranges 0-25 to 0-10,000 psi



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## HIGH RANGE CURRENT

Pressure Ranges 0-15,000 to 0-60,000 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.