

PT139 & PT139A Rugged Test Transducers

MEASURE HYDRAULIC PRESSURE
IN EXTREME ENVIRONMENTS



Description

Dynisco's PT139 & PT139A pressure transmitters are designed to measure hydraulic pressure in extreme environments of vehicle and other hydraulic and pneumatic applications. These withstand cyclic pressure and provide outstanding performance under the severe demands of the industrial market.

The small and rugged design make them ideal for restricted space applications. The all welded steel construction is ideal for demanding industrial or heavy duty applications. They are environmentally sealed transducers that prevent contamination.

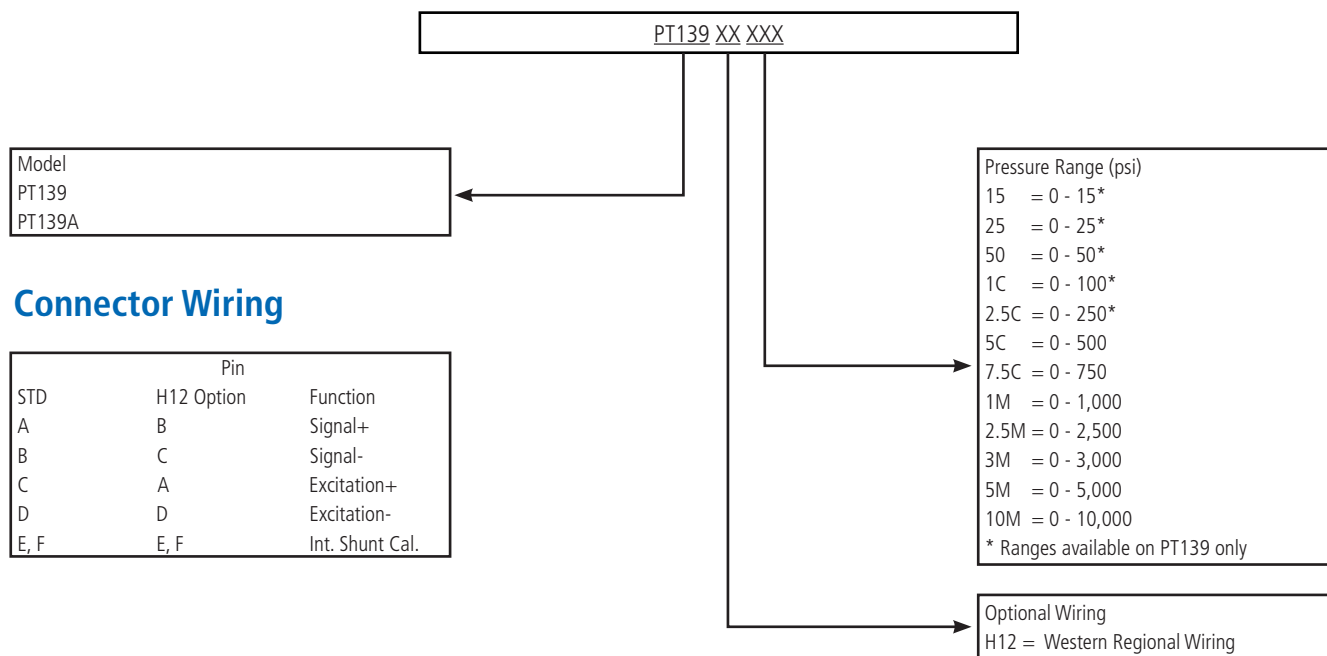
Features

- 3 mV/V full scale output
- Accuracy better than $\pm 0.5\%$
- Pressure ranges from 0-15 PSI to 0-10,000 PSI
- Pressure/vacuum service
- Extended operating temperature range
- All welded, stainless steel construction
- Withstands severe shock and vibration
- Internal 80% shunt calibration
- CE approval

Performance Characteristics	
Pressure Range (psi):	PT139 only: 0 - 15, 0 - 25, 0 - 50, 0 - 75, 0 - 100, 0 - 250 PT139, PT139A: 0 - 300, 0 - 500, 0 - 1,000, 0 - 2,500, 0 - 5,000, 0 - 10,000
Accuracy:	±0.5% full scale including linearity, hysteresis and repeatability
Full Scale Output:	3 mV/V ±1.0% typical (±2.0% maximum)
Zero Balance:	±1.0% typical (±2.0% maximum)
Electrical Characteristics	
Input Resistance:	420 Ohms ±20%
Output Resistance:	370 Ohms ±10%
Internal Shunt Calibration:	80% ±0.5% full scale typical (±1.0% maximum)
Excitation:	10 Vdc recommended, 15 Vdc maximum

Temperature Characteristics	
Operating Range:	-65° to +285°F (-54°C to +140°C)
Compensated Range	-40° to +275°F (-40°C to +135°C)
Temperature Effect On Zero:	±0.008% full scale/°F (±0.014% full scale/°C)
Temperature Effect On Span:	±0.008% full scale/°F (±0.014% full scale/°C)
Mechanical Characteristics	
Safe Overpressure:	2 x rated pressure
Burst Pressure:	5 x rated pressure
Wetted Material:	17 - 4 PH, 15 - 5 PH stainless steel
Cover Material:	303, 304 stainless steel
Weight:	PT139: Approximately 5 ounces; PT139A: Approximately 2 ounces

Ordering Guide for PT139 & PT139A Series

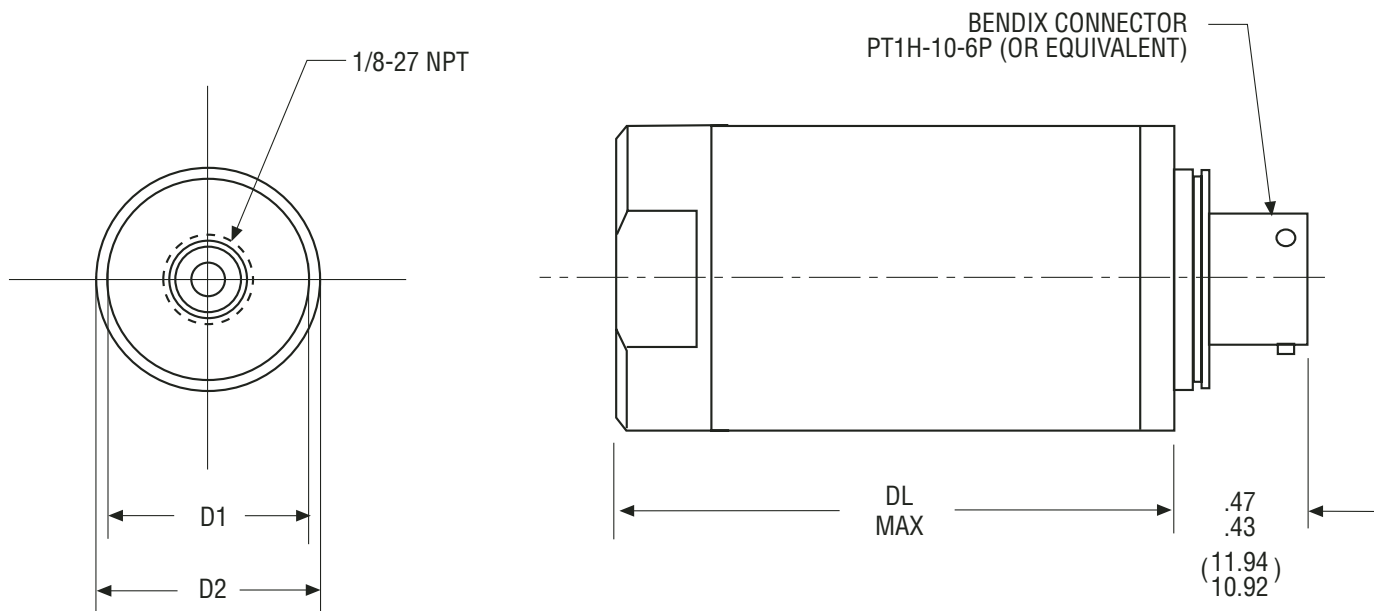


Connector Wiring

	Pin	
STD	H12 Option	Function
A	B	Signal+
B	C	Signal-
C	A	Excitation+
D	D	Excitation-
E, F	E, F	Int. Shunt Cal.

Mating connector PN/711600 or 6 - pin cable assembly sold separately. For additional options please consult factory.

Dimensions



Model	Pressure Range (psi)	Dim. D1	Dim. D2	Dim. DL
PT139	15 - 75	1.00 (25.40)	1.125 (28.575)	2.25 (57.15)
PT139	100 - 10,000	0.87 (22.10)	1.00 (25.40)	1.95 (49.5)
PT139A	300 - 10,000	0.688 (17.48)	0.75 (19.05)	

All dimensions are inches (mm) unless otherwise specified.