

# PT139 & PT139A Rugged Test Transducers

## **Operating Manual**



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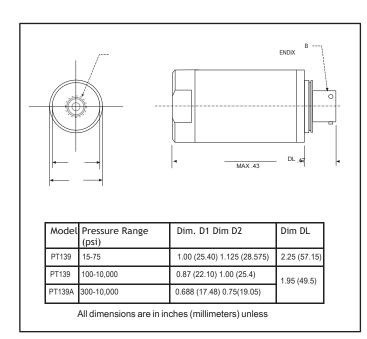
From lab to production, providing a window into the process

#### Introduction

The Dynisco model PT139 pressure transducers are designed to measure up to 10,000 psi. These models incorporate a 350- ohm, bonded foil strain gage Wheatstone Bridge. This proven technology provides an output of 0 Đ 3.0 mV/V (nominal), proportional to hydraulic pressure (within the specified error band). These transducers convert changes in applied pressure into corresponding changes in output voltage. This output signal can be fed into a wide range of readout instruments with millivolt sensitivity.

#### **Pressure Fitting**

The pressure fitting on the PT139 transducer is a 1/8"-27 NPT internal port. The fitting is fabricated from high-strength stainless steel.



#### Wiring

Sustainability

All PT139's are equipped with a 6-pin, Bendix PT1H-10-6P (or equal) receptacle. The mating plug is a Bendix PT06A-10-6S (SR) or equivalent, Dynisco P/N 711600, for general service or a Bendix PT06W-10-6S or equivalent, Dynisco P/N 711610, weather-tight connector.

Material Analysis

Profitabi

### Wiring (cont.)

| Function                 | PT139 (std) | PT139-H12                |
|--------------------------|-------------|--------------------------|
| Signal +                 | Red (A)     | Excitation +             |
| Signal -                 | Black (B)   | Signal +                 |
| Excitation +             | White (C)   | Signal -                 |
| Excitation -             | Green (D)   | Excitation -             |
| Internal Cal<br>Resistor | Blue (E)    | Internal Cal<br>Resistor |
|                          | Orange (F)  |                          |

The full-scale output of the PT139 pressure transducer is 3 mV/V. The power supply should be well regulated with recommended excitation of 10 Vdc, 15 Vdc maximum to the transducer. Six conductor-shielded cable, such as Dynisco P/N 800024, should be used for transducer connections.

#### **Internal Shunt Calibration**

Each transducer includes an internal shunt calibration ("R-Cal") function that is used to simulate a signal of 80% full scale, this

is achieved by crossing pins E and F. This eliminates the need for cumbersome calibrated pressure source when scaling associated instrumentation.

#### **Transducer Repair**

Questions concerning warranty, repair cost, delivery, and requests for a RA# should be directed to the Dynisco Repair Department, 508-541-9400 or email: repair@dynisco.com. Please call for a return authorization number (RA#) before returning any product. Damaged transducers should be returned to: Dynisco, LLC Repair Department RA# 38 Forge Parkway, Franklin, MA 02038



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**Profitability** 

**Material Analysis** 

Sustainability

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Verification

MFR)

Ran Materials