

## 832 Series

# Pressure sensors

Highly Accurate Pressuresurement





#### **Description**

Dynisco's 832 General Purpose Sensor offers highly accurate pressure measurement at ranges up to 10,000 PSI. Excellent temperature compensation provides superiour performance at operating ranges of up to 250 degrees farenheit. Its high accuracy and versatile, rugged design make it ideal for applications as diverse as automotive test stands and polymer test equipment.

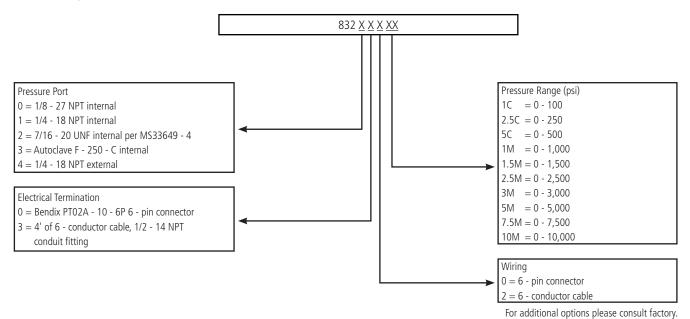
#### **Features**

- Accuracy ±0.15%
- Excellent temperature compensation
- Welded, stainless steel construction
- 3mv/V output
- Internal shunt calibration

Performance Characteristics		
Pressure Range (psi):	0 - 100, 0 - 250, 0 - 500, 0 -1,000, 0 - 1,500, 0 - 2,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000	
Accuracy:	±0.15% FSO including linearity, hysteresis, and repeatability	
Electrical Characteristics		
Full Scale Output:	3 mV/V ±0.25%	
Input/Output Resistance:	350 Ohms ±5 Ohms	
Zero Balance:	±1% FS0	
Insulation Resistance:	1,000 megohms @ 50 Vdc	
Internal Shunt Calibration:	80% ±0.5% FS0	
Excitation:	10 Vdc recommended, 15 Vdc maximum	

Temperature Characteristics		
Operating Range:	-65°F to +250°F (-54°C to +120°C)	
Compensated Range	0°F to 150°F (-18°C to +66°C)	
Temperature Effect On Zero:	±0.003% full scale/°F (±0.005% full scale/°C)	
Temperature Effect On Span:	±0.003% full scale/°F (±0.005% full scale/°C)	
Mechanical Characteristics		
Safe Overpressure:	1.5 x rated pressure	
Burst Pressure:	100 - 250 psi: 10 x rated pressure 500 - 3,000 psi: 5 x rated pressure 5,000 - 10,000 psi: 3 x rated pressure	
Wetted Material:	17 - 4 PH, 15 - 5 PH stainless steel	
Cover Material:	303, 304 stainless steel	
Weight:	Approximately 13 ounces	

### **Ordering Guide for 832 Pressure Sensor**







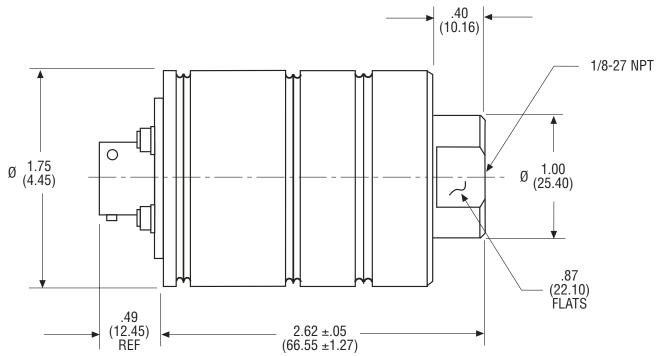


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### **Dimensions**



All dimensions are inches (mm) unless otherwise specified.

### **Wiring Code**

Pin	Cable	Function
А	Red	Signal+
В	Black	Signal-
	White	Excitation+
D E	Green	Excitation-
Е	Blue	Int. Shunt Cal.
F	Orange	Int. Shunt Cal.







in **F** 

# **Options**

#### For Melt and Industrial Pressure Transducers and Transmitters

1. Options for Melt Pressure Transducers and Transmitters.

1.1 All detailed specifications for the below mentioned options see table next page (Specifications for tip-versions with 1/2"-20UNF thread).

B106 Oil fill material (safe for medical and food applications). Max. operating temperature 315°C. Available for all

standard transducer and transmitter versions, pressure ranges 70 bar up to 700 bar.

(Details and characteristics see on pages 112 / 113)

B170 Titanium nitride coated diaphragm, available for sensors with standard fill material with 15-5 PH- or the

thicker Inconel 718-diaphragm as well as sensors with NaK fill material and Inconel 718 diaphragm.

**B171** NaK fill alternate to the Standard fill material, only with Inconel 718 or Hastelloy C-276 diaphragm.

High operating temperature up to 540°C only with Inconel 718 diaphragm. Max. pressure range 700 bar.

B173 Borafuse coated diaphragm for sensors with Inconel 718 diaphragm and the fill material standard or NaK.

Best solution for applications in abrasive materials. Only for high pressure ranges 350 bar up to 1400 bar.

B220 The thicker Inconel 718 diaphragm with standard fill material.

H - Code Hastalloy C-276 material of the diaphragm and transducer's lower stem and threads.

Corrosion resistance against agressive polymer and chemical materials.

XL - Code Version with stronger, 0.15mm inconel 718 diaphragm, for high pressure ranges 200bar up to 2000bar

T80 0.008" thick 15-5 PH diaphragm with DyMax coating for any ½" thread transducer configurations

with standard fill. Only for high pressure ranges 350 bar up to 1400 bar.

#### 1.2 Additional general options

**D01** Sealing surface flat ( 90° ) instead of the standard 45° sealing surface.

D05 Cable connected output with cable bushing, IP65 protection, single wire end.

D30/xxx Special calibration with range expansion of the signal output for MDT & EMT versions.

Max. expansion up to 2-times, e.g. 100 bar range calibration max. 0-50 bar acc. 0-100% signal,

80% cal value of modified output signal.

**D83** Wheather proof matching plug 6-pin connector.

PT100 RTD100 Temperature measurement element instead of standard thermocouple.

**S137** Thermocouple PT100 stem and flexible length like the pressure sensor dimension.

T93 0.009" thick diaphragm for M18x1.5 thread transducer versions

TCxx Diverse thermocouples available, please call for specific delivery information

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