





Trusted for quality, reliability and accurate performance at an affordable price.

Features

- 2 year warranty and 60 years of Dynisco industry experience
- Accuracy better than ±0.5%
- TiAIN diaphragm coating is standard
- mV/V, 0-10VDC, or mA outputs available
- Integral temperature sensor option
- Available in configurations that fit most extruder applications
- 1.5M, 3M, 5M, 7.5M & 10M psi pressure range capability

Description

The Echo[™] Series of melt pressure sensors offer quality performance and value for plastic processing utilizing standard configurations and pressure ranges. Echo sensors are designed to meet customer requirements by providing a combination of economic value and performance for general extrusion applications while providing a $\pm 0.2\%$ repeatability when measuring process pressures. Use Echo Series sensors when the application requires a quality measurement for optimized control, but not the costs of all the extra features.

Dynisco has produced field-proven pressure sensors for more than 60 years. Echo was designed with the best engineering practices and is backed by Dynisco with a two full years of warranty – double the protection of comparably-priced sensors.

Echo sensor diaphragms are coated with Titanium Aluminum Nitride, as a standard offering, providing superior performance over less effective Titanium Nitride coatings.

Dynisco technology is widely accepted by OEM's and end users throughout the world. The Echo Series sensors are available with 3.33mV/V, 4-20mA, 0-5VDC or 0-10VDC outputs designed to work with most industrial controls. In addition to melt pressure measurement, Echo Series offer a optional melt temperature measurement with type J, K thermocouples or RTD. The Echo Series are equipped with a 1/2-20 UNF or M18 thread for installation in standard transducer mounting holes. Additional mounting configurations are available.

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Specifications

PERFORMANCE CHARACTERISTICS

Input excitation: mV/V: 10VDC recommended, 12VDC max VDC:

16-30VDC mA: 14-30VDC

Output, Analog: 3.33mV/V, 0-10VDC, or 4-20mA

Accuracy*: $\pm 0.5\%$ FS Repeatability: $\pm 0.2\%$ FSO

Electronics Operating

Temperature, max: mV/V:250°F(120°C);mA,VDC:185°F(85°C)

Overload Pressure Rating: 1.5 x FSO

Pressure Ranges (psi): 1.5M, 3M, 5M, 7.5M or 10M **Pressure Units:** PSI, Bar, Kg/cm², or MPa

Zero Balance Adjustment

(±% FS): $mV/V: na; VDC: +15\%; mA: \pm 20\%$

Zero Balance Setting

(±% FS): $mV/V: \pm 10\%$; VDC, mA: $\pm 0.5\%$

Bridge Resistance: mV/V: 345Ω , min

Insulation Resistance: mV/V: 1000 M Ω @50VDC; VDC,

mA: 100 MΩ @50VDC,

Internal Shunt Calibration

(R-Cal): 80% FSO $\pm 1.0\%$ FSO

MECHANICAL & PACKAGING CHARACTERISTICS

Sensor Technology: 4-arm bonded foil strain gage Wheatstone bridge

Diaphragm Temperature: 662° F (350°C) for Rigid

752° F (400°C) for Flex

Zero Shift

(process temp change): 25 psi/100°F (45psi/100°C), nominal

Diaphragm Wetted Parts: 17-4 PH SST

Electrical Connection: 6 pin or Hirschmann

Process Connection: 1/2-20 UNF thread (45° conical seal)

M14, M18, M22

Mounting Torque: 500 in/lbs, max

Temperature Sensor

(optional): J or K-type thermocouple with 3 inch flex,

PT100 RTD

APPROVALS& CERTIFICATIONS

Marks, Certifications, Registrations: CE

RECOMMENDED ACCESSORIES

Mounting Hole Machining Tool Kit:Part Number 2009256-pin Bendix Mating Connector:Part Number 711600Mounting Bracket (Electronics):Part Number 200941

Cable Assemblies, Indicators,

Controllers:

Consult distributor or Dynisco

Replacement Thermocouples:

K Type 6" Snout Item Number HY001715

J Type 6" Snout Item Number HY001722

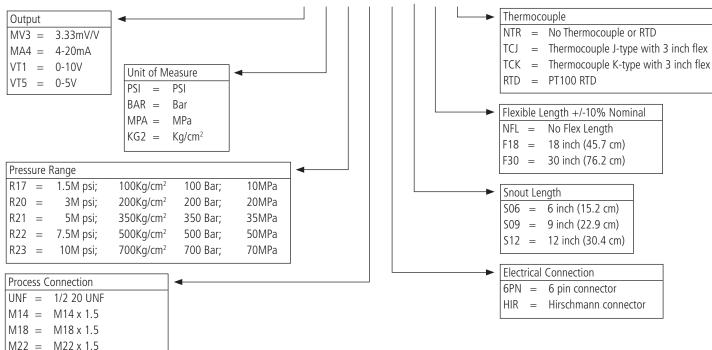
J Type 9" Snout Item Number HY001723

J Type 12" Snout Item Number HY001724

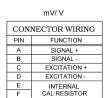
PT100 RTD 6" Snout Item Number HY001726

Ordering Guide

ECHO-XXX-XXX-XXX-XXX-XXX-XXX-XXXX-XXX

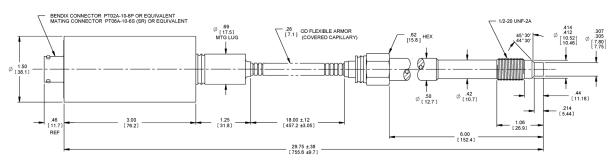


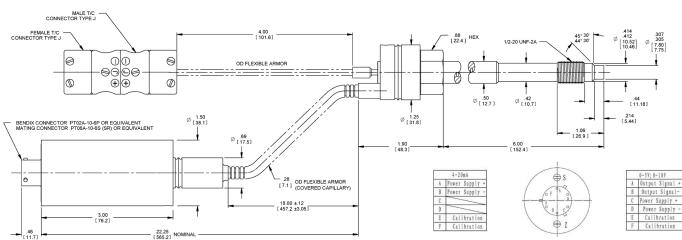
Accuracy is defined as the combined error expressed as a percentage of full scale output.
 Combined error includes linearity (BSL), as defined in ISA-S37.1.



NOTES
1. DIMENSIONS ARE IN [MILLIMETERS]

CONFIGURATION WITH 6 INCH SNOUT LENGTH AND 18 INCH FLEXIBLE LENGTH BENDIX CONNECTOR PT08A-10-69 OR EQUIVALENT MATING CONNECTOR PT08A-10-69 (SR) OR EQUIVALENT MATING CONNECTO





ELECTRONICS SHELL ON mA VERSION IS $\not \! 0$ 1.50 [38.1] X 3.75 [95.2] LONG.

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