

A Revolution in Sensor Technology and Selection.



The Dynisco line of sensors is one of the most comprehensive in the industry, not only because of our breadth of line, but also because of our simpler method of matching Dynisco sensor features, performance, and price point to your application and business needs.

From our revolutionary Vertex™ sensors with their industry first 4-Year Warranty, to the core product offering of BenchMark™, to the reliable yet economical Echo™ series, Dynisco is dedicated to ensuring your sensor solution is the most cost-effective possible for your operation.



Echo™ Melt Pressure Sensors

Trusted for quality, reliability, and accurate performance at an affordable price, Echo melt pressure sensors are the perfect choice for less demanding applications. With stainless-steel wetted parts, accuracy to within 0.5% and 1.5M to 10M psi pressure range capability, Echo sensors offer performance features other economically priced sensors can't match.

BenchMark™ Sensors: PTx, MDx, SPX, and Guardian Series

Benchmark is our flagship sensor line, renowned for reliability, precision, and long life. Offering $\pm 0.15\%$ to $\pm 0.5\%$ combined error, simple installation, and repeatability, the Benchmark line includes SPX smart industrial transmitters for use in hazardous locations, and Guardian sensors with built-in relays that signal when the process becomes unsafe.

Vertex™ Mercury Free Sensors

Vertex sensors are our most robust, advanced-performance sensors offering longer life, faster response, and mercury free operation. Their revolutionary, reinforced diaphragm design using DyMax® coated Inconel delivers significantly longer working life than traditional sensors, more corrosion resistance than stainless steel, with an operating temperature range from -40°C to 400°C .

BenchMark™ Our flagship sensor line renowned for reliability, precision, and long life.



PT460E/MDA460 Series



FEATURES & BENEFITS ($\pm 0.5\%$ Combined Error)

- Outputs including 3.33mV/V, 4–20mA, 0–5Vdc and 0–10Vdc for user-defined compatibility
- 500 to 30,000 psi versions for range-specific extrusion processes
- Variety of rigid and flexible stem lengths allows for customer-defined configuration
- Several diaphragm materials for increased corrosion or abrasion protection
- Thermocouple and RTD configurations available for dual pressure and 4634/5/6 temperature measurement
- Available in Bar and kg/cm² (other ranges available)

PT420A/MDA420 Series



FEATURES & BENEFITS ($\pm 0.25\%$ Combined Error)

- 3.33mV/V output provides industry standard low-level output
- 500 to 30,000 psi versions for range-specific extrusion processes
- Variety of rigid and flexible stem lengths allows for customer-defined configuration
- Several diaphragm materials for increased corrosion or abrasion protection
- Thermocouple and RTD configurations available for dual pressure and temperature measurement
- Available in Bar and kg/cm² (other ranges available)

PT46XX/MDT460 Series



FEATURES & BENEFITS ($\pm 0.5\%$ Combined Error)

- Outputs including 4–20mA, 0–5Vdc, 1–6Vdc, 0–10Vdc and 1–11Vdc for user-defined compatibility
- 500 to 30,000 psi versions for range-specific extrusion processes
- Variety of rigid and flexible stem lengths allows for customer-defined configuration
- Several diaphragm materials for increased corrosion or abrasion protection
- Thermocouple and RTD configurations available for dual pressure/temperature measurement
- Available in Bar and kg/cm² (other ranges available)

SPX Series

The SPX family of sensors reliably withstands the rigors of process measurement, where higher accuracy and tighter control is required.

The SPX-L employs a unique algorithm technique to reduce the effects of non-linearity in a sensor measurement.

The SPX-T pressure sensor has an integral RTD temperature sensor to compensate for temperature variations, an important variable commonly affecting the performance of polymer melt control systems.

SPX 2x, 4x Series



FEATURES & BENEFITS ($\pm 0.25\%$ or $\pm 0.5\%$ Combined Error)

- 4–20mA output provides analog output for direct PLC and DCS connection
- HART™ protocol provides greater operator convenience, safety and maintenance
- 250 to 30,000 psi versions for range-specific extrusion processes
- Convenient zero and span buttons for easy setup
- Intrinsically safe and explosion-proof versions available for hazardous area installations

SPX-L, 5x Series



FEATURES & BENEFITS ($\pm 0.2\%$ Combined Error utilizing "DynaLarity™")

- 4–20mA output provides analog output for direct PLC and DCS connection
- Improved accuracy with DynaLarity™ to +0.20% FSO
- HART™ digital communications
- ATEX Intrinsically Safe for hazardous environments
- FM & CSA approved Explosion Proof for hazardous environments
- Meets CE-PED requirements for European standards
- 0–250 to 0–30,000 psi customer-defined ranges

SPX-T, 3x Series



FEATURES & BENEFITS ($\pm 0.15\%$ or $\pm 0.25\%$ Combined Error)

- 4–20mA output provides analog output for direct PLC and DCS connection
- Full snout temperature compensation
- HART™ digital communication
- 4–20mA loop output
- 0–250 to 0–10,000 psi
- 6:1 span turndown

Guardian: PL'c' compliant pressure sensors for safety assurance applications



Guardian Series

Dynisco offers its popular pressure sensors with an internal relay switch that serves as a safety backup as well as being compliant to the directive through an extension of the line called Guardian Series.



FEATURES & BENEFITS

- Integral relay switch for redundant safety and future compliance
- 3rd-party agency analysis (exida™) and self-certified based on FMEDA analysis and internal audit.
- Meets Performance Level 'c' as defined by the Machinery Directive (single sensor installed per Category 1)
- Meets Performance Level 'd' as defined by the Machinery Directive (two sensors installed per Category 3)
- Meets the following compliance directives, when properly installed and used:
 - Machinery Directive 2006/42/EC
 - NFPA 79 clauses A.9.2, A.9.4.1, A.9.4.3.2
 - EMC Directive 2004/108/EC
 - PED 97/23/EC
- Available on popular mV/V (PT, MDA, mA SPX Series) models

Sensors for Food & Medical Applications

In applications where protection against chemical or particulate contamination is vital, Vertex sensors use no fill materials, offering critically acclaimed, mercury free sensing technology.

Vertex sensors also offer several other important advances:

- Reinforced diaphragm sidewalls offer up to twice the working life of traditional sensor design
- Direct sensing technology provides faster response
- DyMax® coated Inconel diaphragm more corrosion resistant than stainless steel
- Temperature range from -40°C to 400°C
- Industry's first and only 4-Year Warranty

