

DYNISCO MODEL PT415D

Food Extrusion Pressure Transducer

Stocked, Distributed, and Supported by

SENSORS
INCORPORATED

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Description

Model PT415D features a stainless steel electronics housing and stem, allowing it to be used in such applications as food and photographic processing where it may be washed down regularly. The standard conduit fitting may be replaced by a hermetic 6 - pin connector (Option B314).

Features

- Better than $\pm 0.5\%$ accuracy
- Sealed stainless steel housing and stem
- Standard conduit, optional hermetic fitting
- Internal 80% shunt
- 3.33 mV/V FSO
- FDA recognized as safe (GRAS)

Benefits

- Reliable pressure measurement
- For applications requiring wash - down
- Choice of electrical connectors
- Easy set - up
- Standard low level output
- Safe for food and medical applications



Specifications

Performance Characteristics

Ranges (psi): 0 - 500, 0 - 750, 0 - 1,000, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy: $\pm 0.5\%$ FSO
Repeatability: $\pm 0.2\%$ FSO

Mounting torque: 500 inch - lbs. maximum

Maximum pressure: 2 x full range

Material in contact with pressure media: 15 - 5 PH stainless steel, Dymax® coated

Weight: 2 lbs.

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Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage
Bridge resistance: *Input:* 345 Ohms minimum; *Output:* 350 Ohms $\pm 10\%$
Full scale output: 3.3 mV/V $\pm 2\%$

Internal shunt calibration (R-Cal): 80% FSO $\pm 0.5\%$

Insulation resistance: 1,000 megohms at 50 Vdc

Zero balance: $\pm 5\%$ FSO

Temperature Characteristics

Transducer diaphragm:

Maximum diaphragm temperature: 750°F (400°C)

Zero shift due to temperature change: 15 psi/100°F maximum (27 psi/100°C)

Electronics housing:

Maximum temperature: 250°F (121°C)

Zero shift due to temperature change: $\pm 0.01\%$ full scale/°F maximum ($\pm 0.02\%$ full scale/°C)

Sensitivity shift due to temperature change:

$\pm 0.005\%$ full scale/°F maximum ($\pm 0.01\%$ full scale/°C maximum)

$\pm 0.01\%$ /°F maximum 500, 750, 1,000 psi ($\pm 0.02\%$ full scale/°C maximum)

