

Description

90610-TH is through hole compression Load Cell, specially designed for fastener testing where the compression loading of sensor is induced by tensile loading of the fastener. It is strain gage based with full temperature compensation over 0 to 60°C. It is easy to install and use. It is supplied with mating connector. It can be used to measure suspended load by mounting the load cell on flat surface and apply load to the leg mount passed through the hollow center. Fastener testing can be done by passing it through hole. Then apply force by tightening the nut. Washers at both ends are recommended to avoid damage to the cell's surfaces.

Features

- ❖ 5Tf to 0-150Tf capacities are offered.
- ❖ Complete environmental protection for gage area is provided for IP-65 protection class.
- ❖ Standard out put of 2 mV/V is provided.
- ❖ Optionally can be offered in Stainless Steel 17-4 ph grade.
- ❖ Other capacities can be customized as per requirements.

Applications

Fastener Testing	Civil Engineer Testing
Bolt Force Measurement	Injection Molding Machine
Material Testing	Tablet Manufacturing Machine
Press Calibration	Robotics & Industrial Automation

Performance Specification

Standard Capacities	5, 7.5, 10, 15, 20, 30, 50, 100, 150 TF.
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 m V/ V
Non - Linearity	< ±0.25% FSO
Hysteresis	< ±0.25% FSO
Non-Repeatability	< ±0.10% FSO
Creep (30 minutes)	< ±0.03% FSO
Zero Balance	±1.0% FSO
Input Resistance	770 ± 20 Ohms
Output Resistance	700 ± 3 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable Length (4 Core Screened)	5 Meters
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	250%
Allowable Side Load	50%
Temp. Compensated Range	0-60 °C
Temperature Effect on Output	< 0.0015% FSO/ °C
Temperature Effect on Zero	< 0.0020% FSO/ °C
Deflection	< 0.4 mm at FSO
Finish & Construction	Electroless Nickel Plated Tool Steel
Environmental Protection Class	IP 65

Electrical Termination

	+ Input	Red
	+Output	Green
	-Input	Black
	-Output	White
	Shield	



Note: For detailed dimensional drawing, please contact us at sales@adiartech.com or please find contact info at <http://adiartech.com/contact.html>.



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