



Description

Model 90810 is a strain gauge based, compact & low profile compression type Heavy Duty load cell. It is constructed from Electro less Nickel Plated Tool Steel material. This load cell is recommended for Tank, Hopper, Hydraulic Press, Compression Force Testing, Civil & Construction material testing applications. It is compensated for temperature from 0 to 50 °C.

Applications

- Compression Force Testing
- Hydraulic Press
- Tank, Silo Weighing
- Civil & Construction Material Testing
- Pile & Structure Testing

Key Features

High accuracy available As per standard ISO 376:2011.

Complete Environmental Protection – Meets IP 65 class

Electro less Nickel Plated Tool Steel constructions

Wide range of capacities from 50 TF to 1000 TF.

Standardized output (2.0 mV/V) and customized output can be provided on request

Calibration in mV/V/Ω

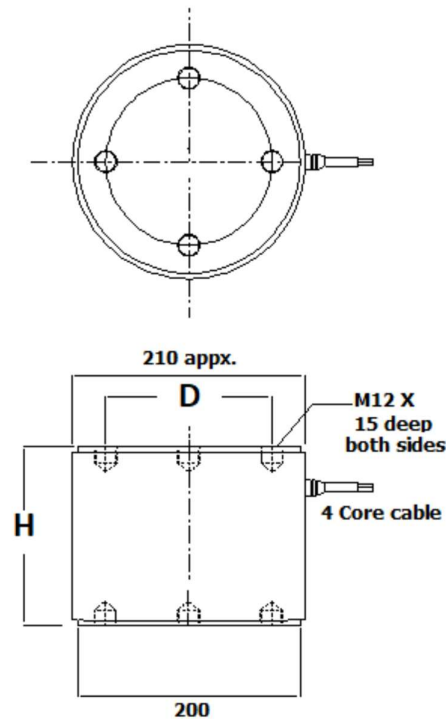
Can be **customized** to suit customer's need

Dual Bridge For sensor redundancy can be Provided optionally

Technical Specifications

STANDARD CAPACITY		50, 100, 200, 500, 750, 1000. - TF
PERFORMANCE	Non - Linearity	< ± 0.5 % FSO
	Hysteresis	< ± 0.2 % FSO
	Non-Repeatability	< ± 0.15 % FSO
	Creep (30 minutes)	< ± 0.15 % FSO
	Zero Balance	± 1.0 % FSO
ELECTRICAL	Output	2.00 mV/V
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10VDC)
	Input Resistance	$770 \pm 10.0 \Omega$ (Ohms)
	Output Resistance	$700 \pm 3.0 \Omega$ (Ohms)
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)
STRUCTURE	Safe Overload Of Rated Capacity	150%
	Ultimate Overload of Rated Capacity	200%
	Allowable Side Load	50%
	Deflection	< 0.4 mm at FSO
	Finish Product	Electro less Nickel Plated Tool Steel
	As per IS/IEC 60529:2001	IP65 (Gauge Area)
TEMP.	Operating Temperature	0°C to 60°C (Optional 90°C, 120°C, 150°C)
	Compensated Temperature	10°C to 50°C (Optional 90°C, 120 °C, 150 °C)
	Temperature Effect on Output	< 0.005 % FSO/ °C
	Temperature Effect on Zero	< 0.0030 % FSO/ °C

Dimensions (mm)

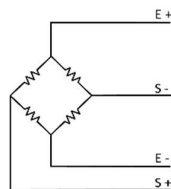


CAPACITY-TF	H	D	MOC	CABLE
50, 100, 200	160	150	Tool Steel	5 Meter
300, 500	230	150	Tool Steel	5 Meter
750, 1000	260	185	Tool Steel	5 Meter

All dimensions are in mm.

Specifications are Subject to Change.

Electrical Termination



Excitation(E+)	Red
Signal(S-)	White
Excitation(E-)	Black
Signal(S+)	Green
Shield	