



Description

Model 90210/90310 is a strain gage based multicolumn Compression type Load cell. It is Hermitically Sealed to provide better Environment protection. The cell is recommended for tank, truck, track & Hopper type weighing applications. It is also used for Compressive force testing Machines. **90310 linearized version is offered up to 200 TF Capacity only.**

Applications

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

Key Features

High accuracy available with class 1, 0.5, 00
As per standard ISO 376:2011

Complete Environmental Protection – Meets
IP 68 class meet to IP69K

stainless steel constructions

A high-temperature version can be provided
on request

Wide range of capacities from 5 TF to 500 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

Technical Specifications

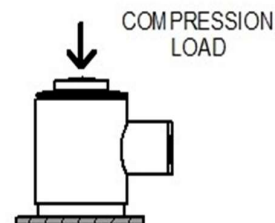
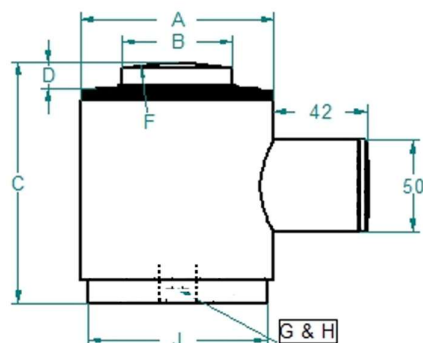
STANDARD CAPACITY		5, 7.5, 10, 15, 20, 23, 30, 45, 50, 60, 75, 100, 150, 200, 300, 400, 500 - TF
PERFORMANCE	Non - Linearity	90210-<±0.15 % FSO 90310-<±0.025 % FSO
	Hysteresis	< ±0.03 % FSO
	Non-Repeatability	< ±0.02 % FSO
	Creep (30 minutes)	< ±0.03 % FSO
	Zero Balance	±1.0% FSO
ELECTRICAL	Output	2.00 mV/V (90210 & 90310) & 1.75 mV/V (90210)
	Excitation Voltage	10 VDC - Maximum 15 VDC
	Input Resistance	450 ± 2.0 Ω (Ohms)
	Output Resistance	480 ± 3.0 Ω (Ohms)
	Insulation Resistance	(50 VDC) > 1000 Mega Ω (Ohms)
STRUCTURE	Safe Overload Of Rated Capacity	150%
	Ultimate Overload of Rated Capacity	300%
	Allowable Side Load	50%
	Deflection	< 0.4 mm at FSO
	Finish Product	Electro less nickel-plated tool steel / SS 17-4 PH
	As per IS/IEC 60529:2001	IP68
TEMP.	Operating Temperature	0°C to 60°C
	Compensated Temperature	10°C to 50°C
	Temperature Effect on Output	< 0.0015 % FSO/ °C
	Temperature Effect on Zero	< 0.0020 % FSO/ °C
OPTIONAL	ATEX	II 3D EX tc IIIC T60°C DC , II 3G EX ec IIC GC
	High Temperature Cable	Teflon Cable
	High Temperature Range	40°C to 90°C (Temperature Effect on Output & Zero : < 0.020% FSO/ °C)
	Accessories	DLC-6 DLC-6M DIGITAL LOAD CONTROLLER (MULTI. O/P)

90210/90310

COMPRESSION LOAD CELL



Dimension (mm)

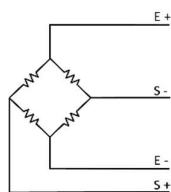


CAPACITY(TF)	A	B	C	D	F	G	H	J	CABLE
5, 7.5, 10, 15, 20, 23, 30	73	32	82	8	150	M12 × 1.25	8	64	15 Meter
45, 50, 60, 75	114	58	127	12.5	150	M20 × 1.50	14	94	15 Meter
100, 150, 200	140	80	184	26	430	M20 × 1.50	19	136	15 Meter
300, 400, 500	220	100	240	26	430	M20 × 1.50	25	219	15 Meter

All dimensions are in mm.

Specification are subject to change

Electrical Termination



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