



Description

Ultra-Precision Strain gauge based 20410 Crane Load cell is versatile, compact and rugged. It is used for in line tension measurement, crane weighing. It can be used in tension mode only. Tension Loading can be applied through Dee / Bow shackles. It is available in 3 TF to 300 TF capacities.

Applications

- To measure rope tension by inserting as a link in to the line.
- To measure towing force of the vehicles and ships.
- Force Measurements Tension Dynamometer.
- Material handling Equipment.
- Hanging & crane scale.
- Cargo handling in Ship yards.
- Bollard Pull Test for Ship & Tug Boats.
- Over Load Detection.
- Weigh cable force Testing.
- Drag Force Measurement.

Key Features

High accuracy available as per standard ISO 376:2011

Complete Environmental Protection – Meets IP 65.

High Alloy tool steel constructions for resistance against shock and over load.

Perpendicular hole design helps in minimizing external moments effects and improves safety & accuracy.

A high-temperature version can be provided on request.

Wide range of capacities from 3TF to 300TF.

It is lightweight, portable and can be supplied with inbuilt FR Transmitter with remote display.

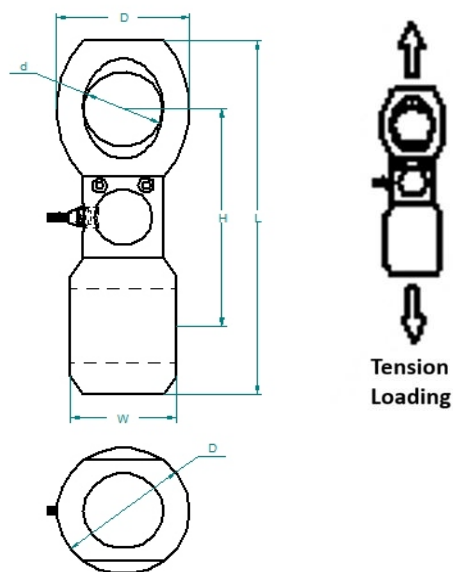
Calibration in mV/V/Ω.

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

Technical Specifications

STANDARD CAPACITY		3, 5, 10, 15, 20, 30, 50, 80, 100,120, 150, 200, 300	-TF
PERFORMANCE	Non - Linearity	< $\pm 0.15\%$ FSO	
	Hysteresis	< $\pm 0.25\%$ FSO	
	Non-Repeatability	< $\pm 0.1\%$ FSO	
	Creep (30 minutes)	< $\pm 0.1\%$ FSO	
	Zero Balance	$\pm 1.0\%$ FSO	
ELECTRICAL	Output	1.00 mV/V	
	Excitation Voltage	Maximum 15 VDC (Suggested 5Vdc / 10 Vdc)	
	Input Resistance	$775 \pm 15 \Omega$ (Ohms)	
	Output Resistance	$700 \pm 3 \Omega$ (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 / SS 17-4 PH	
	As per IS/IEC 60529:2001	Meets IP 65	
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	
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 HH-06 DIGITAL LOAD CONTROLLER (MULTI. O/P)	

Dimension (mm)

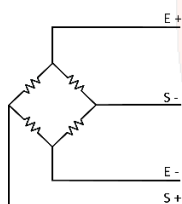


CAPACITY-TF	d	D2	W	H	L	SUITABLE SHACKLE-CB	SUITABLE SHACKLE-SL	CABLE
3, 5	23	48	26	103.5	150	3.25T,4.75T-G/S-209,2130	3.25T,4.75T-SL-2130/209	5 Meter
10	36	63	48	136	200	12T-G/S-209,2130	12T-SL-2130/209	5 Meter
15	42	78	58	158	240	17T-G/S-209,2130	17T-SL-2130/209	5 Meter
20, 30	59	100	80	172	280	35T-G/S-209,2130	25T,35T-SL-2130	5 Meter
50	72	130	102	227	370	55T-G/S-209,2130	55T-SL-2130	5 Meter
80	84	153	124	263	425	85T-G/S-2130	85T-SL-2130	5 Meter
100, 200	100	184	130	315	510	120T-G/S-2130	120T-SL-2130	5 Meter
150	112	210	135	370	600	150T-G/S-2130	150T-SL-2130	5 Meter
200	106	210	145	370	600	200T-G/S-2160	NA	5 Meter
300	135	260	180	490	800	300T-G/S-2160	NA	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	