



Description

20210 is precision universal type Load cell useful in Hanging type weighing, Universal testing, Process & machine automation and In line tension measurement. It is constructed from high tensile tool steel for ruggedness and harsh industrial applications. Its design is strain gauge based with operating temperature over the 0°C to 80 °C range.

Applications

- Conversion of a Mechanical Scale to an Electronic
- Tank, Hopper & Bag Weighing
- Force measurement, tension, or compression dynamometer
- Hanging and crane scale
- Industrial Automation
- Line tension measurement
- Process and machine automation
- Robotics
- Material Strain Test of Filaments, Polymers & Elastomers
- Shore Hardness Test
- Structure test automotive systems, Components & Parts

Key Features

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

Complete Environmental Protection – Meets IP 65, IP 67 & or IP 68 class

Ideal for industrial Platform scales

Electro less nickel-plated tool steel & stainless steel constructions

A high-temperature version can be provided on request

Wide range of capacities from 20KGF to 30TF.(40lb to 66138.7 lb)

Standardized output ($3.0 \pm 0.25\%$ / $2.0 \pm 0.25\%$) and customized output can be provided on request

Calibration in mV/V/ Ω

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

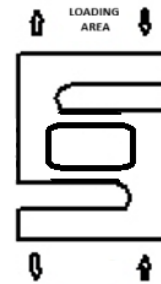
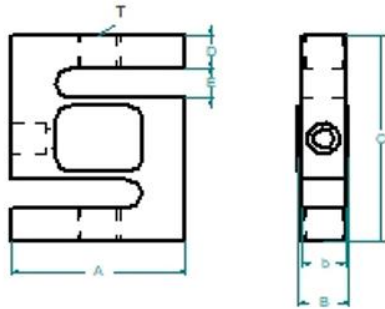
Technical Specifications

STANDARD CAPACITY		50, 100, 200, 300, 500, 750 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30	-KGF -TF
PERFORMANCE	Non - Linearity	< $\pm 0.025\%$ FSO	
	Hysteresis	< $\pm 0.02\%$ FSO	
	Non-Repeatability	< $\pm 0.01\%$ FSO	
	Creep (30 minutes)	< $\pm 0.03\%$ FSO	
	Zero Balance	$\pm 1.0\%$ FSO	
ELECTRICAL	Output	3.00 mV/V $\pm 0.05\%$	
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10 VDC)	
	Input Resistance	392 $\pm$ 15 Ω (Ohms)	
	Output Resistance	350 $\pm$ 3 Ω (Ohms)	
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)	
STRUCTURE	Safe Overload Of Rated Capacity	150%	
	Ultimate Overload of Rated Capacity	250%	
	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	IP67, IP68(with Stainless steel available)	
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	< 0.0015 % 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	Eye Bolt, Threaded Loading Button, Threaded Base Plate DLC-6 DLC-6M HH-06 DIGITAL LOAD CONTROLLER (MULTI. O/P)	

Dimension (mm)

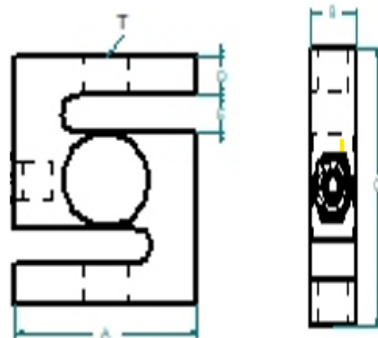
BENDING BEAM :

CAPACITY: 20 KGF - 750 KGF



SHEAR BEAM:

CAPACITY: 1 TF – 30 TF



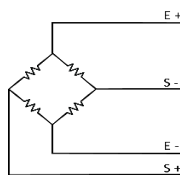
Tension Positive

CAPACITY-TF	A	B(MAX)	b	C	D	E	T	TORQUE	CABLE
20 KGF – 100 KGF	50	20	12.5	62	10	9	M6 X 1.00	0.25 kgf.M	5 Meter
200 KGF - 1 TF	50	25	19	62	10	9	M12 X 1.25	0.50 kgf.M	5 Meter
1.5 TF - 3 TF	75	38	-	100	17	9	M20 X 1.50	2 kgf.M	5 Meter
5 TF - 7.5 TF	90	40	-	140	25	9	M24 X 2.00	9 kgf.M	5 Meter
10 TF	112	52	-	175	40	13	M30 X 2.00	10 kgf.M	10 Meter
15 TF - 20 TF	150	72	-	250	60	13	M36 X 3.00	12 kgf.M	10 Meter
30 TF	140	75	-	250	85	13	M39 X 2.00	15 kgf.M	10 Meter

All dimensions are in mm.

Specification are subject to change.

Electrical Termination



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