

STC

Tension/Compression Load Cell

SENSOR
TECHNIQUES LIMITED



‘S’ Beam Load Cell, Model STC

- Available in capacity ranges from 5kg to 5000kg
- Suitable for tension/compression applications
- Ideal for mechanical scale conversions
- Rationalised output signal $\pm 0.25\%$
- Capacities 5- 20 kg have an aluminium body
- Capacities 25-5000 kg have an alloy steel body
- Stainless steel versions available 25-5000 kg
- Sealed to IP67
- 4-wire cable 6.1 metres long

GRADE		STD
Number of Load Cell Intervals	n (max)	
Minimum Utilisation	% Rated Cap.	
Minimum Verification Interval	Vmin=Emax/.	
Total Error	% Rated Load	Aluminium/Alloy Steel - 0.020 / Stainless Steel - 0.050
Zero Return after 20 mins	% Appl. Load	0.030
Temperature Effect on : Span	%Appl. Ld./°C	0.0026
Zero	%Rated Ld/°C	0.0150
Output at Rated Load (ORL)	mV/V	2.0
Output at Rated Load Tolerance	%	± 0.25
Input Impedance	Ohm	410 ± 5 (Aluminium) / 385± 5 (Steel)
Output Impedance	Ohm	350 ± 3
Recommended Supply Voltage	V	10
Compensated Temp. Range	°C	-10 to +40
Operating Temperature Range	°C	-20 to +60
Safe Overload	% Rated Cap.	150
Ultimate Overload	% Rated Cap.	200 - Aluminium / 300 - Alloy Steel
Cable Length	m	6.1 (20 feet)
Construction		5-20 kg - Aluminium / 25-5000 kg - Alloy Steel
Environmental Protection		IP67
Rated Capacities (Emax) Alum.	kg	5, 10, 20
Rated Capacities (Emax) Steel	t	0.025, 0.05, 0.075, 0.1, 0.15, 0.25, 0.5, 0.75, 1, 1.5, 2, 2.5, 5

Dimensions

Capacity (kg)	L	W	W1	H	T
5/ 10/ 20	50.8	16.6	16.6	63.5	M6 x 1.0
25/ 50/ 75	50.8	26.7	12.7	63.5	M6 x 1.0
100/ 150	50.8	22.92	19.1	76.2	M10 x 1.5
250	50.8	30.4	19.1	76.2	M12 x 1.75
500/ 750	50.8	25.4	19.1	76.2	M12 x 1.75
1000/ 1500	50.8	31.8	25.4	76.2	M12 x 1.75
2000/ 2500/ 5000	76.2	38.1	31.8	100.4	M20 x 1.5

Wiring
 + Excitation Red
 - Excitation Black
 + Signal Green
 - Signal White

All Dimensions in mm
 Specifications are subject to change without prior notice

DS-STC-3 11/17