

HIGH CAPACITY LOAD CELL ASSEMBLY FOR SILO AND TANK WEIGHING

capacities 100t - 600t



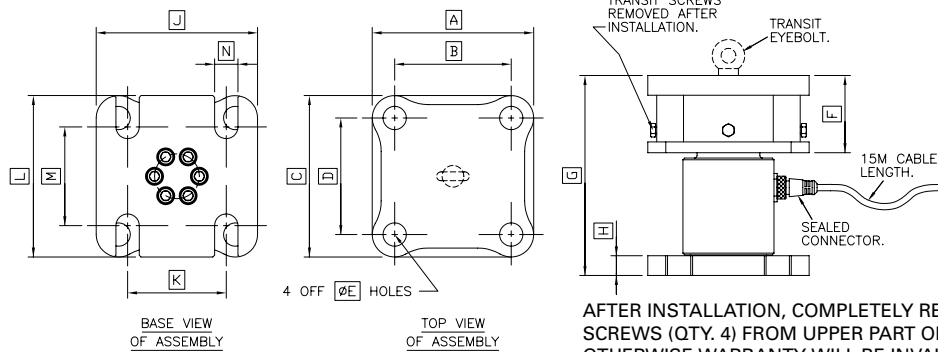
A high accuracy load cell housed in an integral mounting assembly, which is ideal for general weighing of large tanks, silos and vessels – particularly in the cement, waste processing and mineral industries. The design ensures optimum performance and eliminates many traditional problems encountered during the installation of high capacity load cells. The T30 load cell and mounting assembly are supplied as an integrated unit, locked for transport and ready to install on delivery.

The special mounting assembly design readily accommodates structural misalignment and horizontal movement caused by thermal expansion and contraction of the silo, tank or vessel. Lift-off protection is built into the design and can withstand forces of up to 20% of the load cell capacity, making the T30 ideal for installation in exposed locations subject to strong winds.

- Self-aligning design
- Simple, low-cost installation
- High specification Polyurethane cable
- Construction and cable connector sealed to IP67
- Wide operating temperature range
- Tough epoxy painted mounting assembly
- High accuracy design
- Compensation for thermal expansion and contraction
- Integral lift-off prevention (up to 20%)
- 5 year warranty

T30

technical specification...



T30 Load Cell

	Load cell specification	Units
Load Cell Capacities	100, 200, 300, 400, 600	tonnes
Rated Output	$2.0 \pm 0.25\%$	mV/V
Combined error	$< \pm 0.01$	%*
Non-repeatability	$< \pm 0.03$	%*
Creep (30 minutes)	$< \pm 0.05$	%*
Temperature Effect on Zero Balance	$< \pm 0.003$	%* / °C
Temperature Effect on Span	$< \pm 0.005$	%* / °C
Compensated Temperature Range	-10 to +40	°C
Operating Temperature Range	-40 to +80	°C
Safe Overload	150	%*
Ultimate Overload	300	%*
Zero Balance	$< \pm 2$	%*
Input Resistance	750 ± 30	Ω
Output Resistance	700 ± 1.5	Ω
Insulation Resistance	> 500	M Ω @100v DC
Recommended Supply Voltage	5 - 15	V
Maximum Supply Voltage	15	V
Cable Length	15	m
Cable Material	Polyurethane	
Nominal Shipping Weight	T30-100t	23 kg
	T30-200t	66 kg
	T30-300t, 400t, 600t	105 kg
Protection Class	IP67	-

*All percentages are related to Rated output

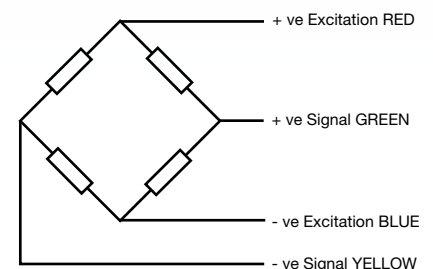
T30 Mounting Assembly

Mounting Assembly	Load Cell Capacity (t)	Maximum Lift-off Resistance (kg)	Maximum Side Load Resistance (kg)	Maximum Angular Misalignment (°)
T30 - 100T	100	20,000	15,000	± 4
T30 - 200T	200	40,000	30,000	± 4
T30 - 300T	300	120,000	90,000	± 4
T30 - 400T	400			
T30 - 600T	600			

Dimensions

Capacity (t)	100	200	300 400 600
A	180	240	270
B	130	180	210
C	180	240	270
D	130	180	210
E	26	32	32
F	86	112	135
G	223	305	370
H	22	32	38
J	180	240	270
K	110	150	170
L	180	240	270
M	110	150	170
N	26	32	32

All dimensions are in mm



Electrical Connections

Via 4 core, 5.7mm diameter, screened Polyurethane cable with removable M12 connector at load cell entry.

DISTRIBUTED BY:



THAMES SIDE SENSORS LTD

Unit 10, io Trade Centre, Deacon Way, Reading, Berkshire RG30 6AZ, UK

tel: +44 (0) 118 941 1387

sales@thames-side.co.uk

www.thames-side.com



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Our policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.

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