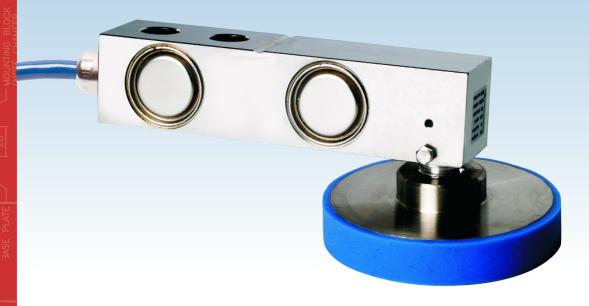


# SHEAR BEAM LOAD CELL FOR PLATFORM SCALES IN HARSH ENVIRONMENTS

capacities 300kg - 2000kg



Load foot is optional

The T85-T stainless steel shear beam load cell is fully welded and hermetically sealed to IP68/IP69K and has been designed for use in high accuracy 4-cell platform scales in the harshest industrial environments. Calibration in  $mV/V/\Omega$  (by output current matching) minimises the need for time consuming platform corner correction. It is approved to OIML R60 Class C3, with a blind loading hole and a durable polyurethane cable. Polyurethane provides greater resistance than PVC to chemicals, UV radiation, temperature changes and impacts.

For high accuracy platform scale applications, the T85-T can be used with the stainless steel load foot T85-LOADFOOT-35916 (ordered separately).

ATEX approval is available for all zones. The certification for dust zones 20, 21 and 22 does not require safety barriers, which creates a large cost saving. For applications in aggressive environments where stress corrosion or acid attack is an issue, a special Parylene coating can be specified as an option to provide greater protection of the load cell.

- Stainless steel load sensor
- Hermetically sealed, fully welded construction IP68 / IP69K
- 3000 divisions (C3) OIML R60 Class C approval
- $\blacksquare$  Calibration in mV/V/ $\Omega$  by output current matching
- 5 year warranty
- High integrity cable gland
- Optional load foot for use in platform scales
- High durability Polyurethane cable
- Option of (Ex) approval

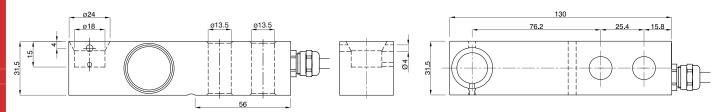




### T85-T

## Thames Side

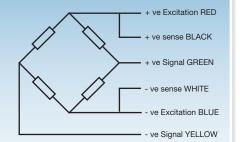
technical specification...



All dimensions in mm

#### **T85-T Load Cell ATEX Certification**

Code	Temperature Class	Parameters	Application	
II 1 GD Ex ia II CT4T6 Ga IP68T85'C Ex ia IIICT135'CT85'C Da Ex ta IIICT85'C Da	T4	Pi = 1.3W	Gas Zones 0, 1, 2 with safety barriers Dust Zones 20, 21, 22	
	T5	Pi = 0.8W		
	T6	Pi = 0.53W	without safety barriers	



#### **T85-T Load Cell**

	Load cell specification	Units
Land Call Compatible (F. )	·	0
Load Cell Capacity (E <sub>max</sub> )	300, 500, 750, 1000, 1500, 2000	kg
Rated Output (S <sub>n</sub> )	2	mV/V *
Accuracy Class according to OIML R60: number of verification intervals (n)	3000	n.OIML
Combined Error	< +/- 0.017	% S <sub>n</sub>
Non-repeatability	< +/- 0.015	% S <sub>n</sub>
Minimum load cell verification interval $(v_{min}) = E_{max} / Y$	E <sub>max</sub> / 10 000	kg
Creep (30 minutes)	< +/- 0.016	% S <sub>n</sub>
Temperature Effect on Zero Balance	< +/- 0.002	% S <sub>n</sub> /°C
Temperature Effect on Span	< +/- 0.0012	% S <sub>n</sub> /°C
Compensated Temperature Range	-10 to +40	°C
Operating Temperature Range	-30 to +70	°C
Safe Load Limit (E <sub>lim</sub> )	200	% E <sub>max</sub>
Zero Balance	< +/- 2	% S <sub>n</sub>
Input Resistance	400	Ω ± 20
Output Resistance	350	Ω ± 3
Insulation Resistance	> 5000	MΩ @ 100V
Recommended Supply Voltage	5-15	V
Maximum Supply Voltage	15	V
Environmental protection according to EN 60529	IP68 ; IP69K	-
Cable Length	5	m
Cable Material	Polyurethane	-
Maximum deflection at E <sub>max</sub>	0.2-0.4	mm
Nominal Shipping Weight	0.9	kg

**Electrical Connections** 

Via 6 core, 5.7mm diameter, screened polyurethane cable.

Screen not connected electrically to load cell.

#### Optional item

Stainless steel/rubber load foot for use with platform scales.

Includes spherical joint and height adjustment. Part number T85-LOADFOOT-35916

DISTRIBUTED BY:

DSPM Industria\*

sensori & trasduttori

Via Paolo Uccello 4 - 20148 Milano Tel +39 02 48 009 757 Fax +39 02 48 002 070 info@dspmindustria.it www.dspmindustria.it

THAMES SIDE SENSORS LTD

Issue: T85-T.03.17









<sup>\*</sup> Pre-corner adjustment optimised at  $\pm$  0.05% by output current calibration