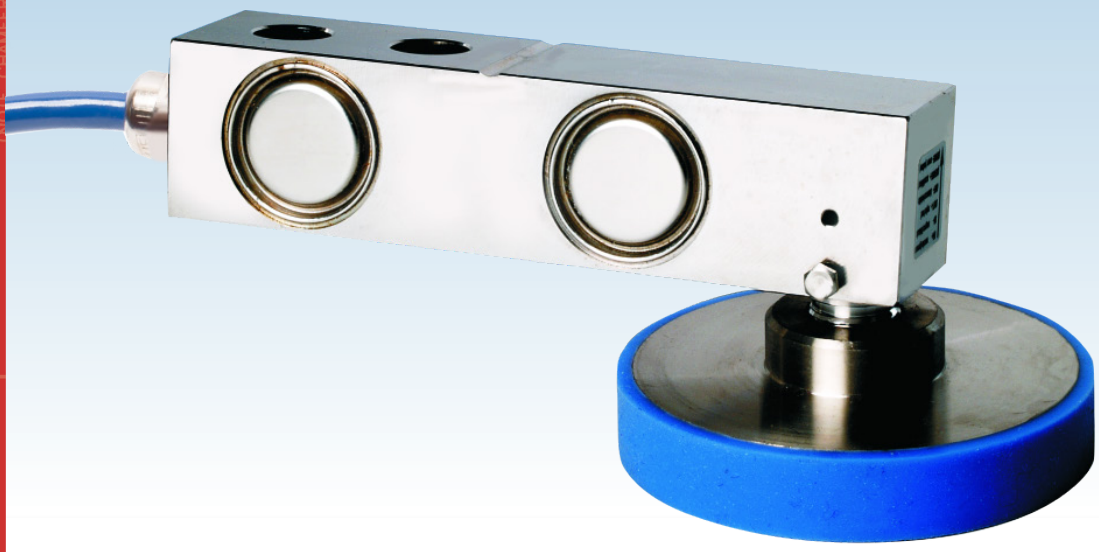
T85-T

Thames Side

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/Ω (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.

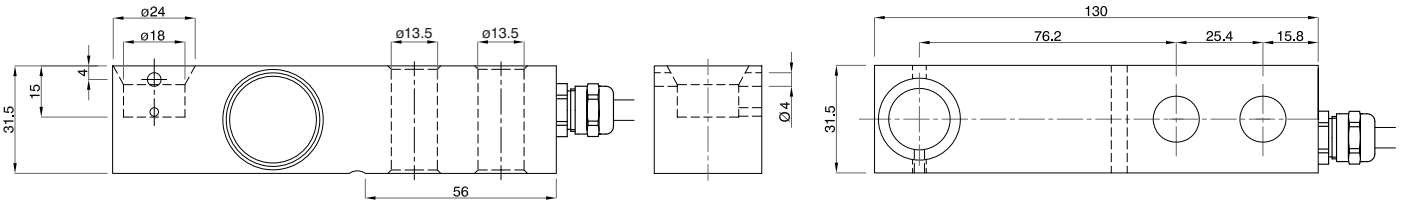
For high accuracy platform scale applications, the T85-T can be used with the stainless steel load foot T85-LOADFOOT-35916 (ordered separately).

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
- Calibration in mV/V/Ω 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

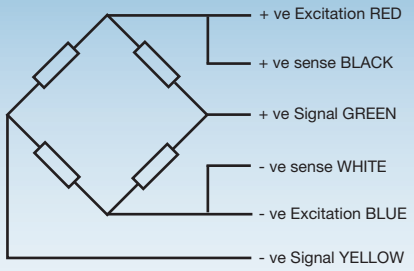
technical specification...



All dimensions in mm

T85-T Load Cell ATEX Certification

Code	Temperature Class	Parameters	Application
II 1 GD Ex ia II CT4..T6 Ga IP68T85°C Ex ia IIIC T135°C T85°C Da Ex ta IIIC T85°C Da	T4	Pi = 1.3W	Gas Zones 0, 1, 2 with safety barriers Dust Zones 20, 21, 22 **without** safety barriers
	T5	Pi = 0.8W	
	T6	Pi = 0.53W	



T85-T Load Cell

	Load cell specification	Units
Load Cell Capacity (E_{max})	300, 500, 750, 1000, 1500, 2000	kg
Rated Output (S_n)	2	mV/V *
Accuracy Class according to OIML R60: number of verification intervals (n)	3000	n.OIML
Combined Error	< +/- 0.017	% S_n
Non-repeatability	< +/- 0.015	% S_n
Minimum load cell verification interval (v_{min}) = E_{max} / Y	E_{max} / 10 000	kg
Creep (30 minutes)	< +/- 0.016	% S_n
Temperature Effect on Zero Balance	< +/- 0.002	% S_n / °C
Temperature Effect on Span	< +/- 0.0012	% S_n / °C
Compensated Temperature Range	-10 to +40	°C
Operating Temperature Range	-30 to +70	°C
Safe Load Limit (E_{lim})	200	% E_{max}
Zero Balance	< +/- 2	% S_n
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_{max}	0.2-0.4	mm
Nominal Shipping Weight	0.9	kg

* Pre-corner adjustment optimised at ± 0.05% by output current calibration

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

AUSTSYS TECHNOLOGIES PTY LTD
9 Yiannis Court, Springvale VIC 3171, Australia
T: 1300 212 174
info@austsystechnologies.com.au www.austsystechnologies.com.au

THAMES SIDE SENSORS LTD
Unit 10, io Trade Centre, Deacon Way,
Reading, Berkshire RG30 6AZ, UK

Issue: T85-T.03.17