

COMPRESSION COLUMN LOAD CELL FOR WEIGHBRIDGES (TRUCK SCALES)

capacities 10t - 60t



Upper and lower attachment plates to be supplied by customer Protective gaiter is removed for clarity

This stainless steel self-centering rocker column load cell is fully welded and hermetically sealed, with protection to IP68 and IP69K. It's an ideal solution for weighbridges (truck scales) thanks to its approval to OIML C4 (4000 divisions) and integral lightning surge arrestors. As well as being extremely tough, the cable's halogen-free Polyurethane sheath has high resistance to rats, chemical attack, cuts, ultraviolet light and temperature changes.

Corner adjustment time is minimised because the T34 has optimized pre-corner adjustment (calibrated in mV/V/ Ohm by output current matching at \pm 0.05 %).

For use in weighbridges (truck scales) a range of mounting cup accessory sets (LA34) are available as optional items, in either stainless steel or nickel plated alloy steel, together with a rubber gaiter, sealing clip and three centering discs. For high accuracy, cost effective, OIML approved silo, vessel and tank weighing the T34 load cell can be used with the LA34-SILO mounting accessory. Refer to the T34 SILO datasheet for more information.

For applications in aggressive environments where stress corrosion or acid attack could be a problem, a special Parylene coating can be specified as an option. Also available are ATEX and High Temperature versions. The ATEX certification allows use in all zones, but in dust zones 20, 21, 22 or gas zone 2 there is no need for expensive barriers.

- Stainless steel load cell, fully welded and hermetically sealed
- Protected to IP68 and IP69K
- In-built surge arrestors for lightning protection
- Industry standard height and mounting pattern
- Calibrated in mV/V/Ohm, by output current matching at ± 0.05 %, to minimise corner adjustment

- PU cable is highly resistant to rats and other forms of attack
- Approval to OIML R60 C4 (4000 divisions)
- Wide operating temperature range
- ATEX, High Temperature and Parylene coating options available
- 3 Year Warranty

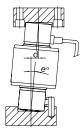


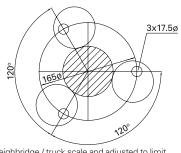




T34

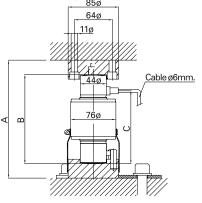
technical specification...





Important: Bumper stops must be fitted to the weighbridge / truck scale and adjusted to limit movement to a recommended min. 3mm, max. 7mm in both the longitudinal and transverse directions. This is essential in order to avoid damage to the equipment. Refer to the critical dimensions d and e below (**).

Thames Side



T34 Load Cell

| | | Load cell specification | Units | |
|-------------------------------------------------------------------|------------------------------------|--------------------------|-----------------------|--|
| Load Cell Capacity (E _{max}) | | 10, 15, 20, 30, 40, 60 | tonnes | |
| Rated Output (S _n) | | 2 | mV/V * | |
| Accuracy Class | Accuracy Class | | n.OIML | |
| Combined error | | < ± 0.013 | % S _n | |
| Non-repeatability | epeatability | | % S _n | |
| Creep (30 minutes) | minutes) < ± 0.012 | | % S _n | |
| Minimum load cell verification interval $(v_{min}) = E_{max} / Y$ | | E _{max} / 10000 | tonnes | |
| Temperature Effect of | Temperature Effect on Zero Balance | | % S _n / °C | |
| Temperature Effect of | Temperature Effect on Span | | % S _n / °C | |
| Compensated Tempe | Compensated Temperature Range | | °C | |
| Operating Temperat | ure Range | -50 to +80 | °C | |
| Safe Overload | | 150 | % E _{max} | |
| Ultimate Overload | | 350 | % E _{max} | |
| Zero Balance | | < ± 2 | % S _n | |
| Input Resistance | | 800 ± 5 | Ω | |
| Output Resistance | | 705 ± 5 | Ω | |
| Insulation Resistanc | e | > 5000 | MΩ @100V | |
| Recommended Supp | ly Voltage | 5-15 | V | |
| Maximum Supply Voltage | | 15 | V | |
| Environmental Protection | | IP68 and IP69K | - | |
| Maximum deflection at E _{max} | | 0.6 - 1 | mm | |
| Cable Length | 10t - 30t | Options of 15m or 20m | - | |
| Cable Leligtii | 40t - 60t | 20m | - | |
| Cable Type | Cable Type | | - | |
| Nominal Shipping Weight | 10t, 15t, 20t | 2.5 | | |
| | 30t | 2.6 | kg | |
| | 40t | 2.8 | | |
| | 60t | 3.8 | | |
| | Mounting Accessories | 3 | | |

- * Optimized pre-corner adjustment (calibrated in mV/V/Ohm by output current matching at $\pm\,0.05\,\%$)
- 1. OIML C4 (4000 divisions) approval is available for capacities from 15t to 60t inclusive

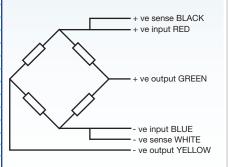
Model T34 ATEX Certification

| Code | Specific parameters of protection types | | Application | |
|-----------------------------------------------------------------------------|-----------------------------------------------------|---------------|----------------------------------------------------------------------------------|--|
| II 1 G D Ex ia IIC T4T6 Ga Ex ia IIIC T85°C Da Ex ta IIIC T85°C Da | Protection type "Ex i" Ex ia IIC T4 / Ex ia IIIC | Pi = 1.3W | Gas Zones 0, 1, 2 with safety barriers | |
| | Protection type "Ex i" Ex ia IIC T5 | Pi = 0.6W | | |
| | Protection type "Ex i" Ex ia IIC T6 | Pi = 0.2W | | |
| | Protection type "Ex ta" | Umax = 25V | Dust Zones 20, 21, 22 without safety barriers. Maximum supply voltage 25V. | |

Dimensions

| Capacity | 10t - 20t | 30t | 40t | 60t |
|-----------------------------------|-----------|-----|-----|-----|
| Α | 200 | 200 | 200 | 260 |
| В | 150 | 150 | 150 | 210 |
| С | 123 | 123 | 123 | 153 |
| d max. ** | 13 | 13 | 13 | 11 |
| e max. permitted tilting ** | 5° | 5° | 5° | 3° |
| r sph. radius | 130 | 160 | 180 | 220 |

All dimensions are in mm



Electrical Connections

Via 6 wire, 6mm diameter, screened Polyurethane cable with high toughness and high resistance to rats.

Accessories

Mounting accessory set comprising top & bottom mounting cups, 3 centering discs, nitrile rubber protective gaiter and securing clip.

Part numbers: LA34-40T-NP (10t-40t, nickel plated alloy steel), LA34-40T-SS (10t-40t, stainless steel) or LA34-60T-SS (60t, stainless steel)

DISTRIBUTED BY:

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





