

Model RLU Tension/Compression Load Cell (Universal Load Cell)

- Very high accuracy
- Infinite resolution
- Low cost

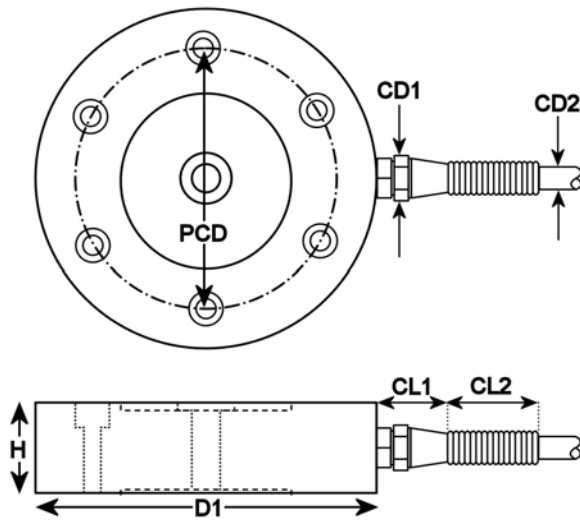


A load cell or force sensor is a device which converts load or force into an electrical signal.

A load cell should be mounted on a hard, flat surface. Tension/compression load cells measure the force applied to the centre threads of the load cell.

Care should be taken to ensure that the load sensor is not exposed to load or force in excess of its capability. The range of tension/compression load cell (universal load cell) selected should therefore be appropriate for the maximum force (including transient forces) that can be applied to it.

This series of transducer is a strain gauge type transducer and has a mV output which may require an amplifier. We can offer a variety of high quality, low noise and high precision strain gauge amplifiers.



CD1=	13.6mm
CD2=	5.05mm ±0.15mm
CL1=	22mm
CL2=	27mm

Type	Range	D1	H	PCD	Top (Drilled for cap-head screw)	Centre thread
RLU00250	±250kgf (±2.5kN)	75mm	25mm	57mm	6 X M6x1	M10x1.5
RLU00500	±500kgf (±4.9kN)	75mm	25mm	57mm	6 X M6x1	M10x1.5
RLU01000	±1000kgf (±9.8kN)	90mm	25mm	66mm	6 X M8x1.25	M12x1.75
RLU02500	±2500kgf (±24.5kN)	90mm	25mm	66mm	6 X M8x1.25	M12x1.75
RLU05000	±5000kgf (±49kN)	140mm	45mm	115mm	8 X M10x1.5	M24x3.0
RLU10000	±10000kgf (±98kN)	152mm	45mm	124mm	8 X M12x1.75	M36x4.0

Specification	
Excitation/supply (acceptable)	0 to 15V
Excitation/supply (calibrated)	10V
Output	2mV/V ±10%
Zero balance	2% F.S.
Bridge resistance	350/700Ohms nominal
Linearity error	±0.03% F.S.
Hysteresis	±0.03% F.S.
Repeatability	±0.03% F.S.
Resolution	Infinite
Temperature coefficient (zero)	±0.002% F.S. /°C (typical)
Temperature coefficient (span)	±0.002% F.S. /°C (typical)
Operating temperature range	-20°C to 60°C
Compensated temperature range	-10°C to 40°C
Ingress protection (IP)	65
Over-range capacity	50%
Major construction material	Steel
Electrical termination	3m (integral cable)

All dimensions and specifications are nominal.

Due to our policy of on-going development, specifications may change without notice. Any modification may affect some or all of the specifications for our equipment.

UK Head Office
RDP Electronics Ltd
Grove Street, Heath Town
Wolverhampton, West Midlands, WV10 0PY
United Kingdom
Tel: +44 1902 457512
Fax: +44 1902 452000
Email: sales@rdpe.com
URL: www.rdpe.com
Registered in England No. 1688591