

Series U2000

Miniature tension/compression load cell for force measuring

capacities 1-50kN



ultra low profile - ideal where space is limited

integral electrical connector

2.5 - 50 kN versions stainless steel construction

sealed to IP 54

1 kN version aluminium alloy construction

high frequency response

suitable for material testing applications

LEMO electrical connector

The compactness of the U2000 load cell makes it ideal for use in applications where space is limited. The robust shear web design uses multiple strain gauges, strategically placed to counteract and minimize errors due to unwanted side or non-axial forces. The low deflection and high frequency response are beneficial in high speed measurements especially where peak loads are being monitored.

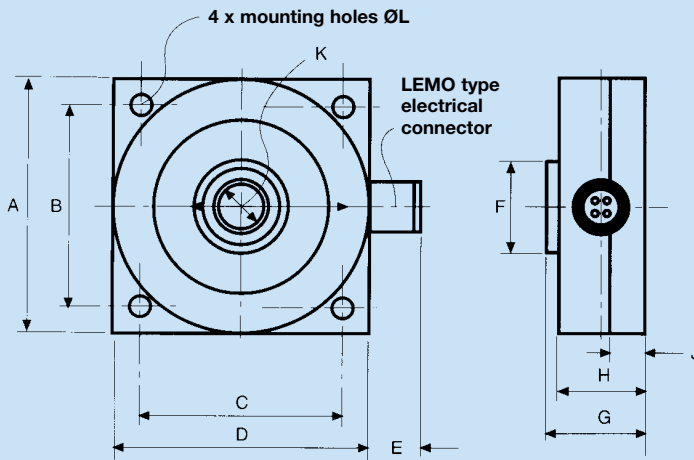
The U2000 can be supplied fully calibrated with ThamesSide-Maywood instrumentation to provide a complete force measuring system.

technical specification sheet

Series U2000

		units
Standard Load Ranges	1, 2.5, 5, 10, 25, 50	kN
Full Scale Output (FSO) Nominal	2	mV/V
Excitation Recommended	10	VDC
Excitation Maximum	15	VDC
Static Error Band	< +/- 0.25	%FSO
Thermal Zero Shift	< +/- 0.02	%FSO/°C
Thermal Sensitivity Shift	< +/- 0.005	% reading/°C
Operating Temperature Range	-20 to +80	°C
Compensated Temperature Range	0 to +60	°C
Input Resistance Nominal	750	ohms
Output Resistance Nominal	700	ohms
Overload Capacity	150	%FSO
Maximum Side Load	50	%FSO
Deflection at Full Load	< 0.03	mm
Environmental Protection Level	IP 54	IEC529
Documentation	Individual Calibration Certificate	-

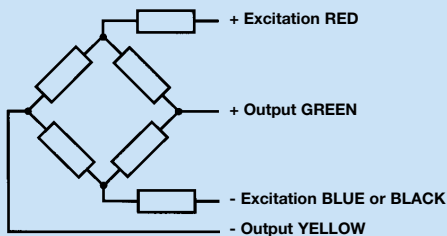
All percentages are related to Full Rated Load



Range kN	A	B	C	D	E	F	G	H	J	K	L	Weight kg
1 - 25	50	40	40	50	15	16	18	17	7	M10 x 1.5	4.5	0.15
50	85	71	71	85	15	32.5	25	22	11.5	M16 x 1.5	6.5	0.15

All dimensions in mm.

Notes: Polarity shown when configured for compression operation.
5 m cable assembly is supplied with each unit.



Screen not connected electrically to load cell.

Options
Spherical load button
Mounting base
Double bridge (fully isolated)
Fatigue rated version
Improved specification versions
Other ranges and versions available on request

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


Sherborne Sensors
Clearly the first choice for precision

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