Sherborne Sensors
Clearly the first choice for precision .....

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.

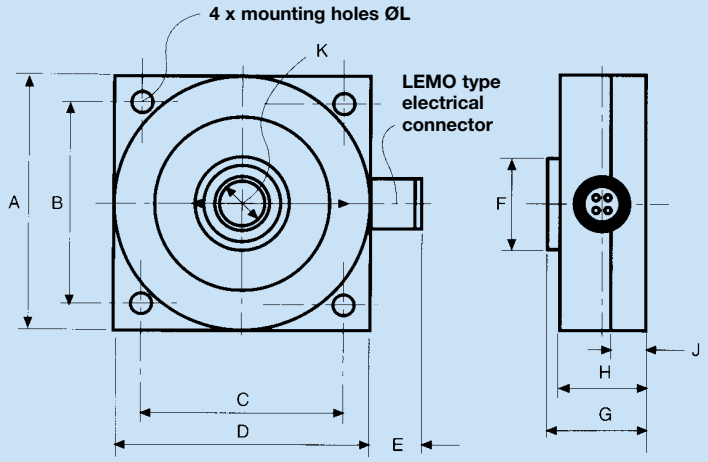
The U2000 can be supplied fully calibrated with ThamesSide-Maywood instrumentation to provide a complete force measuring system.

MECO MEASUREMENTS & CONTROLS
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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/ºC**
Thermal Sensitivity Shift	< +/- 0.005	**% reading/ºC**
Operating Temperature Range	-20 to +80	**ºC**
Compensated Temperature Range	0 to +60	**ºC**
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	**-**

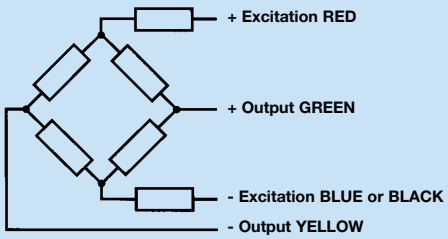
All percentages are related to Full Rated Load



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.

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Approval No. 925394

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