

Load cell KLN

Model M, MF

Art.-No. 43.00..



The KLN load cell with Manometer are used for direct readings of loads. Main applications are static load test and the control of the support force in steel struts or equivalent stiffening elements. The load cell works on the hydraulic measuring principle - when the cell is loaded the pressure of the internal hydraulic fluid increases. This is measured directly by a Manometer. There are two models available - an upright or horizontal mounted Manometer. If the load cell cannot be reached and/or for remote measurements we recommend using models with electric transducers (AU/AI/VW) or Glötzl Compensation Valves (VHD).

TECHNICAL DATA

Load cell with Manometer

Temperature Error:	0.06 % / K
Temperature Range:	-30 °C up to 60 °C
Measuring Range:	250 up to 10000 kN
Over Range:	min. 20 % f.s
Accuracy of Manometer:	10 kN KI. 1.0 ±1 %
Protection Class:	IP68

Advantage

- hydraulic measuring principle
- easy installation
- very robust design
- low construction height

Distribution Plates

We offer additional load distribution plates in various designs to ensure that force is applied to the entire area of the load cell. Customized solutions are available on request.

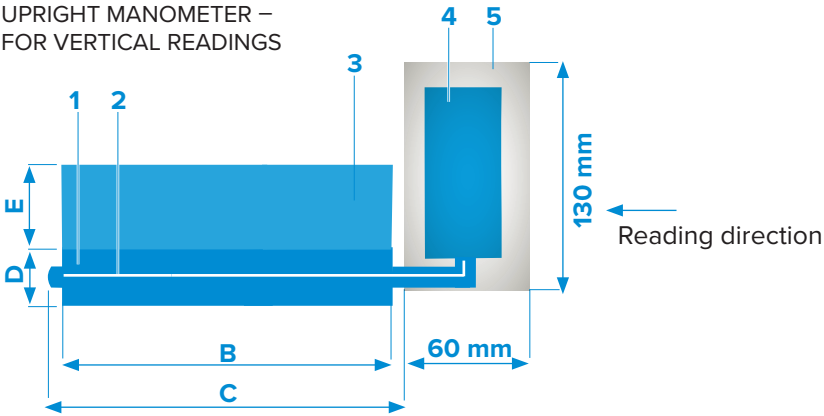
Alternatives

As an alternative to load cells with manometer a remote measurement with GLÖTZL Compensation Valve (VHD) is available as well as piezoresistive pressure sensors (AU/AI) and vibrating wire sensors (VW) - see associated datasheet.



Fig.: load distribution plate

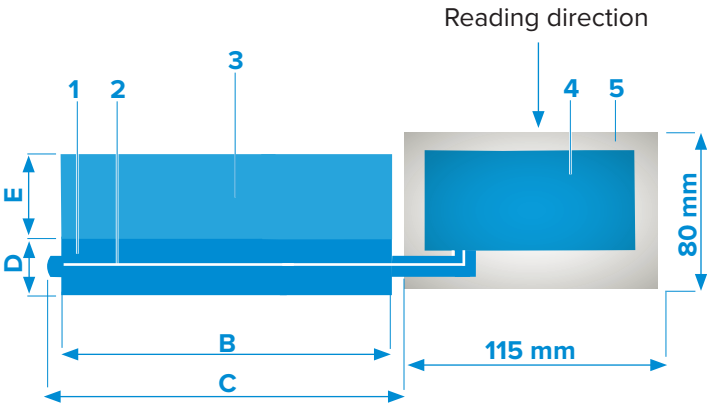
MODEL M
 UPRIGHT MANOMETER –
 FOR VERTICAL READINGS



SYSTEM AND MODEL

- 1. Pressure Pad
- 2. Hydraulic liquid
- 3. Load distribution plate
- 4. Electrical sensor
- 5. Protection Cap

MODEL MF
 HORIZONTAL MANOMETER –



type KLN* M or MF	load (kN)		dimensions (mm)		D	weight (kg) E	load cell	
	nom	max	B (Ø)	C (Ø)			load cell	load cell + distribution plate
KLN 120	120	140	78	98	29	27	2	3.5
KLN 250	250	300	111	132	28	30	3	5
KLN 500	500	600	131	152	28	32	3.5	7
KLN 750	750	900	131	152	28	32	3.5	7
KLN 1000	1000	1200	189	210	28	45	6.5	16
KLN 1400	1400	1600	189	210	28	45	6.5	16
KLN 2000	2000	2400	218	240	30	65	9	27.5
KLN 3000	3000	3600	284	306	30	76	14.5	50.5
KLN 5000	5000	6000	358	382	50	85	36	99.5
KLN 10000	10000	12000	496	522	50	105	68.5	221

*Other measuring ranges on request