

Anchor Load Cells KN

SETTOP



Anchor Load Cells with Manometer for direct readings in kilonewtons (kN) provided by SETTOPSurvey and available through Scancom Radio Communications are used to monitor, e.g. preload force of tiebacks, rock bolts and retaining walls, reliably and permanently.

The anchor load cell is characterised by a pad with a predefined surface made of two discs with high bending strength. Ring grooves at the edges enable the discs to move slightly. The pressure chamber in between is filled with hydraulic liquid and connected directly to the Manometer. This combination allows a conversion of hydraulic pressure into load/force. The small amount of hydraulic liquid in the closed chamber of the load cell provides very accurate measurements with a low influence of temperature.

TECHNICAL SPECIFICATION

Measuring Range: 250 - 5000 kN	Manometer Accuracy: 10 kN class 1.0 ± 1 %	Over Range: min. 20 % f.s.
Protection Class: IP68	Temp. Range: -30 to 60 ° C	Temp. Error: 0.06 % / K

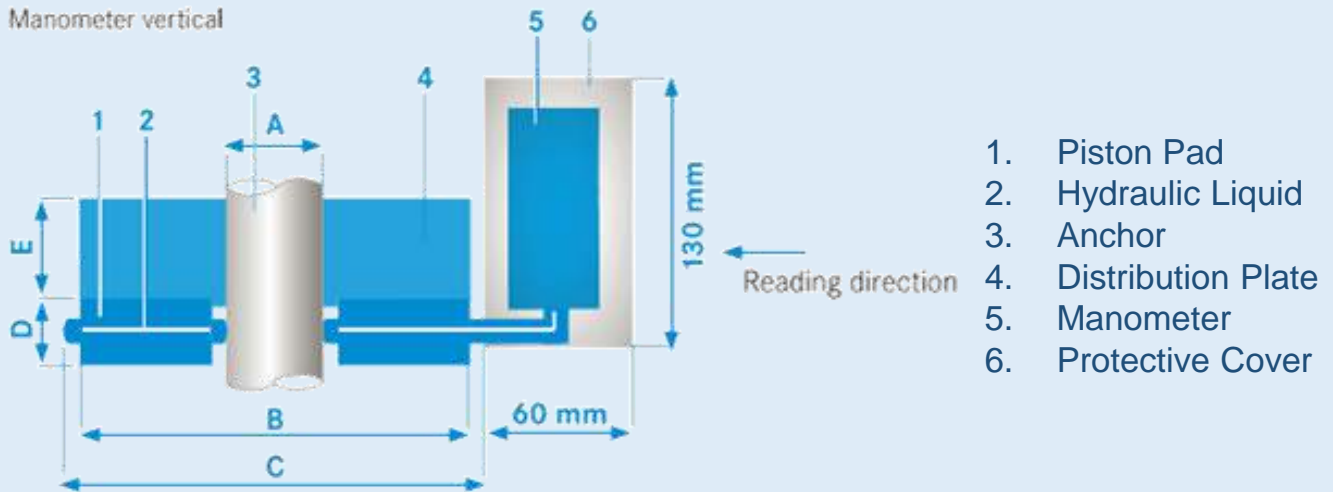
ADVANTAGES

- | | |
|----------------------------------|----------------------------------|
| • Hydraulic measuring principle | • Defined contact area / surface |
| • Easy installation | • Very robust design |
| • Low sensitivity to temperature | • Low height |
| • Direct readings in kilonewtons | • Linear measuring method |



SYSTEM & DESIGN

MODEL M
Manometer vertical



1. Piston Pad
2. Hydraulic Liquid
3. Anchor
4. Distribution Plate
5. Manometer
6. Protective Cover

Type KN	Load (kN)		Dimensions (mm)					Weight (Kg)	
	nom	max	A	B	C	D	E	Load Cell	Cell + Plate
KN 250 A 35 M 2,5	250	300	35	123	144	30	27	3.0	5.3
KN 500 A 50 M 4	500	600	50	144	165	30	37	3.8	7.9
KN 750 A 75 M 4	750	900	75	157	179	30	37	3.8	8.1
KN 1000 A 105 M 4	1000	1200	105	219	241	30	42	6.8	16.4
KN 1400 A 105 M 6	1400	1600	105	219	241	30	42	6.9	16.4
KN 2000 A 135 M 6	2000	2400	135	265	287	30	61	9.5	29.1
KN 5000 A 160 M 6	5000	6000	160	380	406	50	81	34.9	94

