

GLÖTZL Baumeßtechnik

LOAD CELL

Models DK, DKV and VW

Type: KLN . . .

Art. No.: 43. . .



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Figure: Load cell KLN 750 DK 4

The Glötzl load cell consists of a piston pad which is formed by two rigid ring disks which are flexible by turned ring-dovetail grooves at the rims. The annular gap between the pads is filled with a hydraulic fluid which is recording the pressure at the defined area.

In case of the here presented hydraulic / electric models, the hydraulic pressure is converted into an electric signal by a piezoelectric pressure converter (models DK, DKV) resp. by a vibrating wire transducer (VW). Additionally, the cell can optionally be delivered with an installed temperature sensor (AD 590) resp. with a thermistor.

The sensor and the corresponding electronics are placed in a lateral, compact and space-saving stainless steel housing with cable connection.

Model DK:

Equipment with piezoelectric pressure converter, 4-conductor system, supply 4 mA constant current resp. 10 V DC, output signal 0 up to max. 1000 mV.

When using the additional temperature sensor AD 590 (model DK / T), a 6-core cable will be necessary.

Model DKV:

Equipment with piezoelectric pressure converter, 2-conductor system, installed amplifier, supply 10 up to 30 V DC (calibration with standard = 24 V DC), output signal standardized 4 up to 20 mA for the measuring range 0 up to max. load.

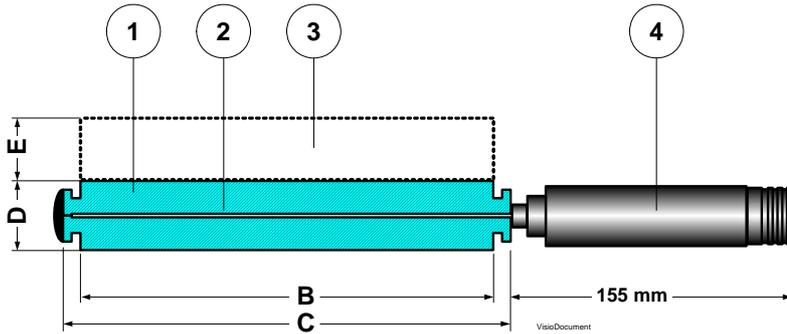
When using the additional temperature sensor AD 590 (model DKV / T), a 4-core cable will be necessary.

Model VW

Equipment with vibrating wire transducer and thermistor, 4-conductor system. For this equipment, a special readout unit is required resp. the hand measuring device type SMC 2.02 or the multimeter, type VMG 14.1.

Model DK and DKV with electric remote control

Load ranges and dimensions



System and construction:

1. Piston pad
2. Hydraulic fluid
3. Distribution plate
4. Electric pressure converter

Type KN..DK(DKV), (VW)	Load [kN]		Dimensions [mm]				Weights [kgs]	
	Nom.	max.	B	C	D	E	Geber	Cell + distribution plate
KLN 120 DK 2,5	120	140	78	98	28	30	3.0	4.5
KLN 250 DK 2,5	250	300	111	132	28	30	4.0	6.5
KLN 500 DK 4	500	600	131	152	28	40	5.0	9.5
KLN 750 DK 4	750	900	161	182	28	40	6.0	12.5
KLN 1000 DK 4	1000	1200	189	210	28	45	8.0	18.0
KLN 2000 DK 6	2000	2400	218	242	30	65	11.0	40.0
KLN 5000 DK 6	5000	6000	358	385	50	85	46.0	113.0

Further load ranges on request



Digital readout unit for two meas. channels type FMG 01-2

- Load and temperature
- Direct display of load in kN
- Display temperature °C
- Installed current supply with charger
- Robust housing

Technical data (piezoelectric transducer)

Measuring accuracy +/- 0.5%
 Temperature error < 0.1% °C f.s.
 Application range -40 °C up to +70 °C
 Permissible tubing length max. 1000 m



Hand measuring device for vibrating wire transducer type SMC 2.02

- Simple handling
- Mains independent
- Small weight
- Illuminated display
- Installed current supply with charger
- Display temperature °C

Measuring range: 0,5 - 3,5 kHz
 Resistance: 0 – 2200 Ω
 Inducing impulse: 60 V/1 ms
 Measuring error: 0,05 – 0,1 %



Readout unit type VMG 14.1

- Load
- Pressure
- Display temperature °C
- All sensors with output signal 4 – 20 mA and 0 – 20 mA
- Displacement transducer
- LVDT, e.g. fissuremeter
- Vibrating wire transducer (VW)
- Resistive strain gauge (DMS)
- Installed current supply with charger
- Robust housing

Subject to technical alternations