

GLÖTZL Baumeßtechnik

LOAD CELL

Models AU, AI and VW

Type: KLN . . .

Art. No.: 43. . .



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Figure: Load cell KLN 750 AU 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 AU, AI) 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 AU:

Equipment with piezoelectric pressure converter, 4-conductor system, supply 1 mA constant current, output signal 0 up to max. 250 mV.

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

Model AI:

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.

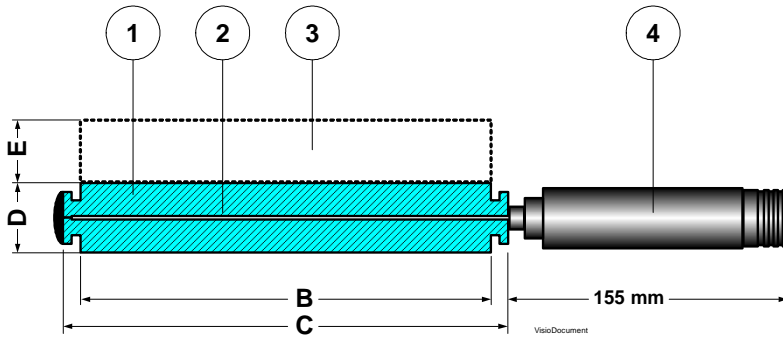
When using the additional temperature sensor AD 590 (model AI / T), a 4-core cable will be necessary.

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 3 or the multimeter, type VMG 14.1.

Model AU and AI 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..AU(AI), (VW)	Load [kN]		Dimensions [mm]				Weights [kgs]	
	Nom.	max.	B	C	D	E	Geber	Cell + distribution plate
KLN 120 AU 2,5	120	140	78	98	28	30	3.0	4.5
KLN 250 AU 2,5	250	300	111	132	28	30	4.0	6.5
KLN 500 AU 4	500	600	131	152	28	40	5.0	9.5
KLN 750 AU 4	750	900	161	182	28	40	6.0	12.5
KLN 1000 AU 4	1000	1200	189	210	28	45	8.0	18.0
KLN 2000 AU 6	2000	2400	218	242	30	65	11.0	40.0
KLN 5000 AU 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 3

- 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