

Load cell CL 14M

- tension/compression load cell
- optional adapters
- two year warranty and after market service

The weight load cell CL 14M has been designed for weighing systems with single or several transducers. Together with the ZEPWN electronic instrumentation allows to take measurements with the 0,5% non-linearity. The sensor CL 14M can be load two-directional.



The conversion of measured load is realized due to a steel spring element with strain gage full bridge. The bridge is balanced and thermal compensated. Conversion elements are closed in a hermetic housing which is secured against corrosion with powder lacquer.

For electrical protection IP40 the sensor is equipped with connectors. For electrical protection IP68 the sensor is equipped with a stuffing on the connection cable.

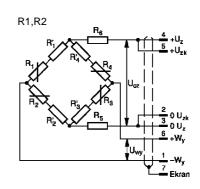
Specifications:

Specifications:

- opeonicatione:		
Range	[kg]	5; 10; 20; 50; 100; 200; 500; 1000; 2000; 5000; 10000
Total error	[%]	< ± 0,018
Non-linearity	[%]	0,5
Return to zero	[%]	±0,2
Return to zero after unloading from nominal load	[%]	≤ 0,03
Strain gauge resistance	[W]	350
Input resistance	[W]	410 ± 10 (up to 1t) / 380 ± 5 (2t ÷ 10t)
Output resistance	[W]	≥350
Zero point deviation	[%/30 min]	≤ 0,03
Temperature effect on the sensitivity	[%/10K]	≤ 0,05
Temperature effect on zero t	[%/10K]	≤ 0,05
Nominal voltage supply	[V]	10
Output signal	[mV/V]	1- R1; 2- R2
Insulation resistance	[GW]	1
Overload capacity	[%]	150
Operating temperature	[°C]	-20 ÷ 80
Compensated temperature range	[°C]	20 ÷ 70
Maximal strain	[mm]	0,1
Connectors		LUMBERG (Z1); O-Ring gland (O1)
Protection degree		IP40, IP68
Dimensions		as in table
Material of spring element		aluminium (up to 1t) and stainless steel (2t÷ 10t)
Cable length		3 m (standard) or optional

Designations and cable outlets

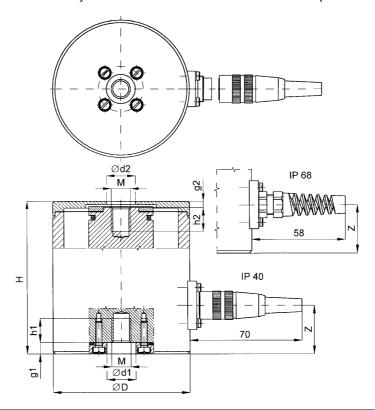
1 brown	$-W_{v}$
2 pink	$0~\dot{U_{zk}}$
3 white	$0 U_z$
4 yellow	$+U_z$
5 grey	$+U_{zk}$
6 green	+W _y
7 black	shield



Quality assurance

Each sensor is detailed examined after manufacturing process.

The manufacturer offers 24 month warranty for the sensor and after that time also repair and calibration services.



Range	Н	D	Z	М	d1	g1	h1	d2	g2	h2
kg					mm					
5	75	65	22	M8	10	7	10	18	2	10
10	75	65	22	M8	10	7	10	18	2	10
20	75	65	22	M8	10	7	10	18	2	10
50	75	65	22	M8	10	7	10	18	2	10
100	75	65	22	M8	10	7	10	18	2	10
200	75	65	22	M8	10	7	10	18	2	10
500	93	85	30	M12	14	7	19	28	6	20
1000	93	85	30	M12	14	7	19	28	6	20
2000	97	88	30	M24x2	28	8	19	45	4	19
5000	97	88	30	M24x2	28	8	19	45	4	19
10000	158	126	50	M39x3	42	8	30	64	5	34

Example of options for ordering

CL 14M - 1000 kg - 0,5 - R2 - 10 - Z1 - 1: sensor with dimensions as in table, range 1000 kg; non-linearity 0,5%; strain gage bridge 350, W, 2 mV/V; supply 10 V; connector Lumberg; cable length 1 m

Manufacturer _____

ZEPWN sp. z o.o. s.k., 05-270 Marki, ul. Kollataja 8

tel.: 004822. 7812169, 7712411, e-mail: zepwn.com.pl, https://www.zepwn.com.pl