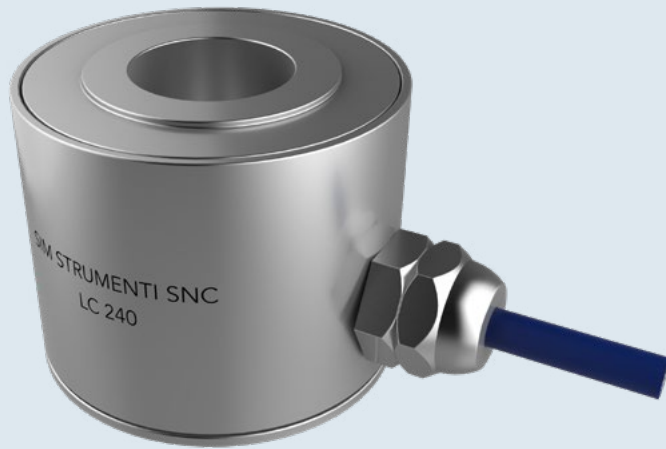


# LC240

## Rods load cell



### Description

The LC240 load cells are designed and built to measure with maximum accuracy and reliability the variations in workload to which the single strand nails are subjected, allowing to carefully evaluate the possible losses for release during the year. Submitted to an external load, the cell sustains a deformation that is measured from the internal strain-gauge bridge and converted to an electrical output signal. The strain-gauges, connected with a configuration of a Wheatstone bridge, detect the deformations in compression and automatically compensate thermal changes.

The load cells are well protected to meet all necessary requirements of extreme weather conditions without any risk of malfunction or damage. Along with the load cells SIM STRUMENTI can also provide load distribution plates to insert between the instrument and the comparison surface, to further increase the accuracy of the measurement and rule out all errors of alignment with the force. Every sensor is provided with a calibration certificate that attests the results of the test performed and all electromechanical features.

Manual read out with DATAVIEW.

Automatic read out with MINILOG, MYLOG.

Readout units with NATUN.

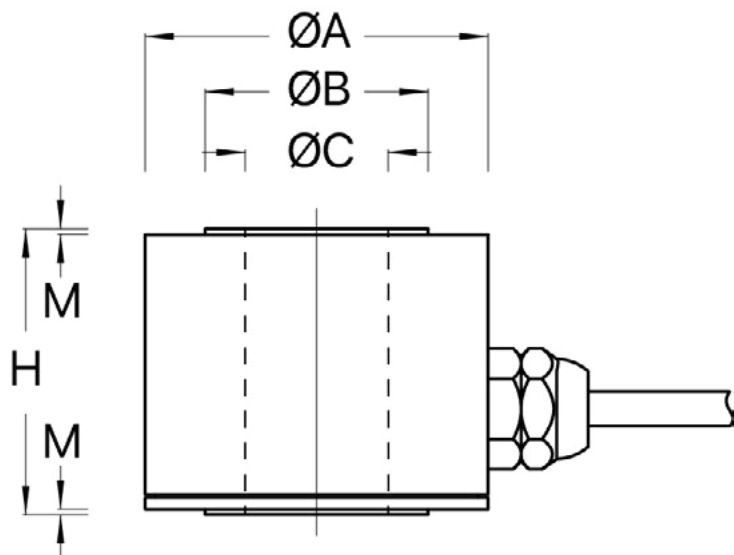
### Applications

Measurement of the single tie rods load, used in dams, embankments, bridges, viaducts, rods in tunnels etc.



# LC240

## Rods load cell



Model	Load (KN)	ØA	ØB	ØC	M	H	Kg
<b>LC240-200</b>	200	50	32	18	1	50	1
<b>LC240-250</b>	250	54	35	20	1	50	1
<b>LC240-260</b>	260	60	39	25	1	50	1
<b>LC240-300</b>	300	63	52	30	2	50	1
<b>LC240-320</b>	320	63	52	32.5	2	50	1

### Technical features

Load	200 ÷ 3000 KN
Supply	1-10 Vcc
Output	2 mV/V
Zero temperature coeff.	±0.005% F.S./°C
F.S. temperature coeff.	±0.005% F.S./°C
Linearity	0.1% FS
Repeatability	0.03% FS
Input resistance	350 ± 20 Ohm
Output resistance	350 ± 5 Ohm
Insulation	> 5000 MΩ
Overload	150% FS
Breaking overload	300% FS
Temperature compensation	-10 ÷ +50 °C
Operating temperature	-20 ÷ +70 °C
Deflection at rated capacity	0.3 mm
Material	Stainless Steel 17-4 PH
Protection	IP68

### Accessories

<b>Distribution plates</b>	<b>LC240-AX-DS-MOD*</b>
<b>4-20 mA converter</b>	<b>LC210-AX-BEMA</b>

\*MOD Indicate the model (-200 -250 -260 -300 -320)