# **PANCAKE LOAD CELLS**

## also with INTERNAL A/D ELECTRONICS SERIES LD-LT



### **APPLICATIONS AND CONSTRUCTIVE FEATURES**

The Series LD and LT, thin, precise and convenient load cells, find *applications* in the industry, for mechanical machines, for actuators, for weighing systems, for reservoirs singly installed for load concentrated in a point or in a group of 2 to 4 units distributed on several bearings.

The Series LD are suggested for compression; the Series LT for tension and compression applications.

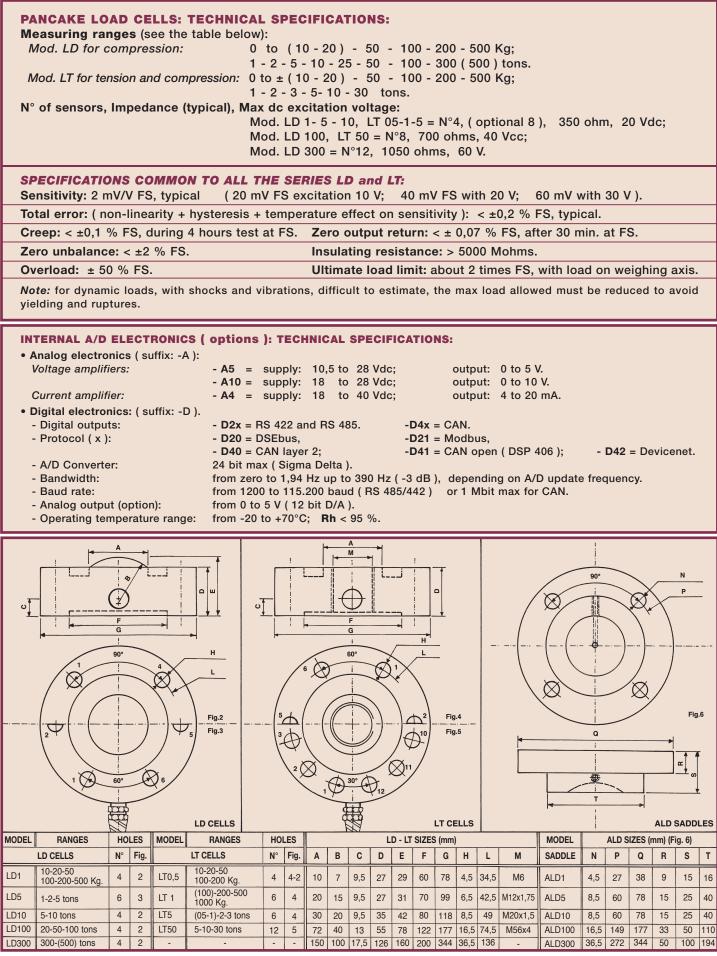
#### Some constructive peculiarities:

- Hermetically sealed: the upper body, the most weathered, is a solid metal piece without electrical circuits that, on contrary, are *immerged* in the lower internal cavity *protected* by water-repellent silicon filler, which is further protected by the external metal bearing ring of the cell that, at the installation, can be buttered by a gasket sealing rubber.
- Number of sensors: distributed on the measuring area, increasing from 4 to 12 with the increase of the diameter and of the capacity (FS) of the cell: to increase the accuracy and the insensitivity to the load position.
- Final test certificate: supplied for each cell and referred to secondary standards periodically calibrated at the National Physical Laboratory (NPL) England.
- Compression mounting accessories (for LD): Upper mounting bases (saddles) Series ALD with spherical notch; Mounting set Series SLD for reservoirs (3÷4 cells); Lateral blocks Series TTLD.

#### ADVANTAGES OF THE INTERNAL A/D ELECTRONICS ( options ):

- Analog electronics (-A): zero (tare) regulation from outside, insensitivity to the cable length and better insensitivity to the external electrical disturbances.
- *Digital electronics (-D)*: all settings are performed by a remote computer: zero (tare) suppression, conversion to mechanical units (Kg, tons, etc.), calibration and operating controls of all the measuring system, alarm (threshold) levels and their hysteresis (CAN), 8 points of customized linearization, up to 32 feasible transducers connected to an only line strongly free from electrical disturbances (ask for the bulletin: "Transducers with digital electronics").

All the internal electronics have CE certification for emission and immunity to electromagnetic disturbances.



Technical specifications and prices may change without notice.





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