# 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.



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