

ADVANTAGES OF DIGITAL LOAD CELLS MODEL 740D



- **High Resolution:** Incorporating a last generation 24 bits analog-digital converter inside the load cell encapsulation allowing the highest resolution up to 1.000.000 points from Zero to Full Scale.
- **Intelligent Individual Compensation:** Incorporating an inner micro-processor, it allows increasing the performance of the load cells by means of intelligent corrections via software algorithms to improve resolution and stability, calibration of zero and gain, linearity and hysteresis corrections as well as temperature compensations of each individual load cell.
- **Inner Filtering:** Each load cell features its own inner filter by means of averaging of multiple weighing per second, which allows it to transmit the most stable weights to the weighing terminal.
- **Immunity to Interferences:** With the digital load cells, the micro-volts are not transmitted anymore, but the signal transmitted to the weighing unit is a numeric digital code, which endows it with a high protection against electro-magnetic interferences. This feature allows it to transmit the value of the weight to long distances.
- **Protection against lightnings:** It is fitted with a high performance protection system against lightning.
- **Self-diagnosis:** The inner micro-processor carries out an individual non-stop self diagnosis of each load cell, allowing for an easy maintenance and it also saves time when searching for errors.
- **Corner Adjustment:** Better and easier corner adjustment by means of the individual checking of the weight of each cell at the weighing terminal. The fine corner adjustment in digital load cell scales could be done by using a numeric coefficient instead of changing resistors as analog load cells.
- **Direct connection to PC:** By using RS485 bus and the RS232 converter, one or more scales can be directly connected in bus to a PC at distances of up to 1200 metres.

- **Easy to maintain and to calibrate:** The direct connection of the digital load cells to the PC allows the carrying out of a diagnosis at a distance via modem.
- **Software Upgrading:** The circuits and an inner resident program facilitate the change of the inner parameters and/or the uploading of new upgrading software externally.