

# Model 1510

## Single Point Load Cells



### Features

- Capacities: 100, 250, 500 kg
- Stainless Steel Construction
- Single Point 600x600mm Platform
- 6 wire (sense) circuit
- Fully welded, providing IP68 Protection
- OIML R60 approved
- Hazardous area approved to Eex ia IIC T6

Model 1510 is a high accuracy single point load cell ideally suited to industrial applications which undergo regular wash down, typically platforms, wall scales and other process weighing application in the food industry.

Hermetically sealed against moisture, the all welded construction of the model 1510 in combination with a polyurethane dual shielded cable, enables continuous operation in harsh environments whilst maintaining a high operating specification.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.



EXCELLENCE IN LOAD CELLS

#### Contact Info

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# Single Point Load Cells

| Grade                          | E   | C3**   | Units                  |
|--------------------------------|---|--------|------------------------|
| Rated Capacities               | 100, 250, 500   |        | kg                     |
| Rated Output                   | 2.0 ± 10%   |        | mV/V                   |
| Total Error*                   | 0.03  | 0.02   | ±% of Rated Output     |
| Zero return after 30 mins      | 0.05  | 0.017  | ±% of Applied Load     |
| Temperature Effect: On Output  | 0.003   | 0.0011 | +-% of Applied Load/°C |
| Temperature Effect: On Zero    | 0.01  | 0.0023 | ±% of Rated Output/°C  |
| Eccentric Loading              | 0.005   | 0.0033 | ±% of Applied Load/cm  |
| Zero Balance                   | 10  |        | ±% of Rated Output     |
| Temperature Range: Operating   | -30 to +80  |        | °C                     |
| Temperature Range: Compensated | -10 to +40  |        | °C                     |
| Safe Overload                  | 150   |        | % of Rated Capacity    |
| Ultimate Overload              | 200   |        | % of Rated Capacity    |
| Excitation: Recommended        | 10  |        | Volts AC or DC         |
| Excitation: Maximum            | 15  |        | Volts AC or DC         |
| Input Impedance                | 380±10  |        | Ohms                   |
| Output Impedance               | 350±3   |        | Ohms                   |
| Insulation Impedance           | >1000   |        | Mega Ohms              |
| Deflection at Rated Capacity   | <0.4  |        | mm                     |
| Weight: (including cable)      | 2.4   |        | kg                     |
| Construction                   | Stainless Steel   |        |                        |
| Environmental Protection       | IP68  |        |                        |
| Cable                          | 3 Meter (Standard), 6 Wire, Polyurethane Jacket, Dual Floating Screen |        |                        |

\*Total Error—According to OIML R60    \*\*Standard utilization 50%, alternative utilization options down to 25%    C4 Grade Available

### Outline Dimensions All Capacities (in mm)

