# Model 1241

## Single Point Load Cells

## Features

- Capacities: 50 - 250 kg (110 - 550 lbs)
- Aluminum Construction
- Combined error only 0.02%
- Unique humidity-resistant protective coating
- 6 wire (sense) circuit
- Low profile - 1.6” (40mm) in height
- Maximum safe moment to 30 X rated capacity (kg-cm)
- 4 mounting holes for added stability

Model 1241 is a low profile, three beam, off-center load cell designed for direct mounting to a weighing platform, hanging scale, or other eccentric loading applications.

It is one of the most compact designs available for these capacities which makes it especially well suited to scales which weigh people as well as high capacity industrial applications where space is limited.

This high accuracy load cell is Factory Mutual and OIML Class C3 Approved. When operated at constant temperature, all load cells offer 0.02% combined error performance regardless of accuracy class.

A unique humidity resistant protective coating assures long-term stability even under harsh environment and extreme temperatures. Optional Sylgard encapsulation is available for applications requiring washdown protection.

Tedea-Huntleigh, with models ranging from 2 to 50,000 kg capacities, is the world’s largest manufacturer of precision load cells.

VISHAY Transducers

EXCELLENCE IN LOAD CELLS


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# Model 1241

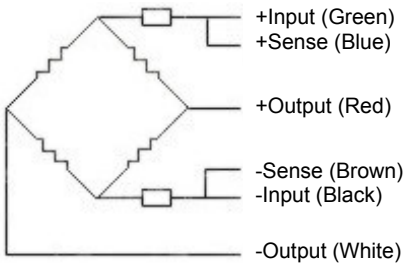
## Single Point Load Cells

| ACCURACY CLASS | E | F | G | UNITS |
|---|---|---|---|---|
| Rated Capacity | 50, 100, 150, 200, 250 | | | kg |
| Rated Output* | 2.0 ± 10% | | | mV/V |
| Total Error** | 1500 | 2000 | 3000 | Divisions |
| Total Error for Eccentric Load of 0.33 Rated Capacity | 0.0074 | 0.0074 | 0.0049 | ±% of Load / cm |
| Maximum Moment | 30 | | | kg - cm |
| Creep at Rated Capacity / Zero Return After 30 Minutes | 0.050 | 0.025 | 0.017 | ±% of Load |
| Zero Balance | 10.0 | | | ±% of Rated Output |
| Temperature Range: Safe | -30 to +70 | | | °C |
| Temperature Range: Compensated | +10 to +40 | | | °C |
| Temperature Effect: On Output | 0.003 | 0.004 | 0.001 | ±% of Applied Load / °C |
| Temperature Effect: On Zero | 0.010 | 0.006 | 0.0028 | ±% of Rated Output / °C |
| Maximum Overload at the Center Loading Point | 150 | | | % of Rated Capacity |
| Ultimate Overload at the Center Loading Point | 300 | | | % of Rated Capacity |
| Excitation: Recommended | 10 | | | Volts AC or DC |
| Excitation: Maximum | 15 | | | Volts AC or DC |
| Input Impedance | 415 ± 15 | | | Ohms |
| Output Impedance | 350 ± 3 | | | Ohms |
| Insulation Resistance | >2000 | | | Mega Ohms |
| Deflection at Rated Capacity | <0.4 | | | mm |
| Weight | 0.65 | | | kg |
| Construction | Aluminum | | | |
| Cable | 1 Meter, 6 Conductor, Polyurethane Jacket, Floating Shield | | | |
| Environmental Protection | IP 54 Standard / IP 65 Optional | | | |
| Approvals | | | | |

* All accuracy specifications maintained when 150% of nominal load is applied for 3 mV/V output

** No linearity, hystresis, repeatability, and output temperature effect according to OIML R60 and NIST H-44

### Balanced Temperature Compression




The two “sense” wires sample the bridge supply voltage at the load cell. Complete compensation of change in the lead wore resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into appropriate electronics.

### Outline Dimensions All Capacities (in inches)