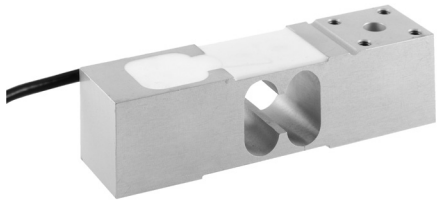
VPG force sensors
Celtron ▪ Revere ▪ Sensortronics ▪ Tedea-Huntleigh

Aluminum Medium Capacity Single-Point Load Cell

FEATURES

- Capacities 50–250 kg
- Aluminum construction
- Single-point 400 × 400 mm platform
- OIML R60 and NTEP approved
- IP66 protection
- Available with metric and UNC threads
- **Optional**
  - ATEX, FM and IECEx approvals available



APPLICATIONS

- Small platforms
- Hanging scales
- Personal scales

DESCRIPTION

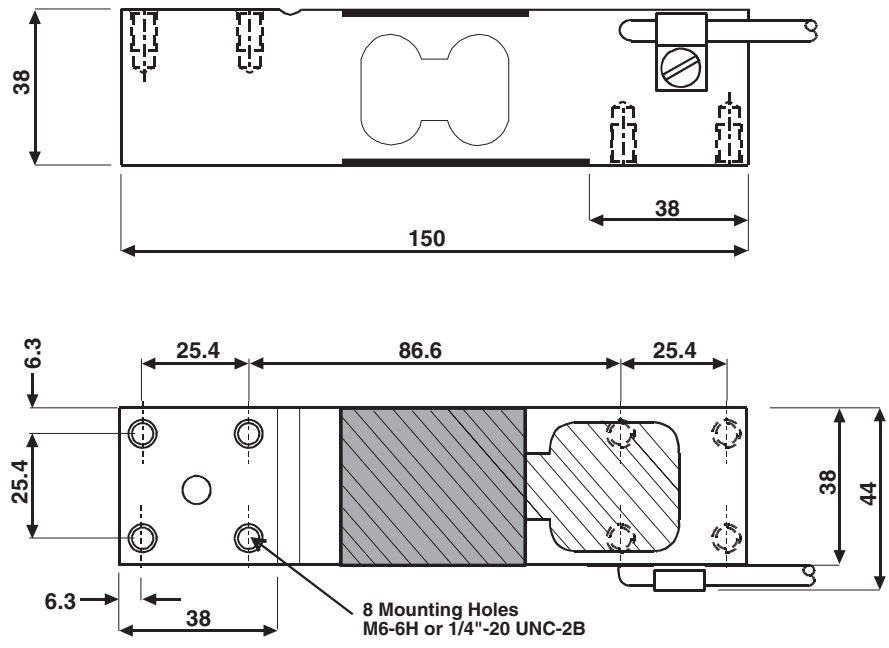
The Model 1241/1242 is a high accuracy, low profile, low cost, two-beam, single-point load cell ideally suited for industrial applications where space is limited. Typical applications include platforms, hanging scales and personal weighers.

This high accuracy load cell is OIML R60 class C6 approved. For hazardous environments this load cell has ATEX approval, as well as Factory Mutual approval.

A special humidity resistant protective coating assures long-term stability over the entire compensated temperature range.

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 can be achieved by feeding this voltage into the appropriate electronics.

OUTLINE DIMENSIONS in millimeters



The document and the products described herein are subject to change from time to time without notice and are also subject to specific disclaimers. Please visit https://vpgsensors.com/disclaimer for more information.

Aluminum Medium Capacity Single-Point Load Cell

SPECIFICATIONS					
PARAMETER	**VALUE**				**UNIT**
Rated capacity—R.C. (E_{max})	50, 100, 150, 200, 250				kg
NTEP/OIML accuracy class	NTEP	Non-Approved	C3*	C6**	
Maximum no. of intervals (n)	5000 single	1000	3000	6000	
$Y = E_{max}/V_{min}$	10000	1400	6000	10000	Max. available
Rated output—R.O.	2.0				mV/V
Rated output tolerance	0.2				±mV/V
Zero balance	0.2				±mV/V
Zero return, 30 min.	0.0330	0.0300	0.0170	0.0083	±% of applied load
Total error	0.0200	0.0500	0.0200	0.0100	±% of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	0.0014	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	0.00058	±% of applied load/°C
Eccentric loading error	0.0049	0.0085	0.0049	0.0024	±% of rated load/cm
Temperature range, compensated	–10 to +40				°C
Temperature range, safe	–20 to +70				°C
Maximum safe central overload	150				% of R.C.
Ultimate central overload	300				% of R.C.
Excitation, recommended	10				VDC or VAC RMS
Excitation, maximum	15				VDC or VAC RMS
Input impedance	415±15				Ω
Output impedance	351±5				Ω
Insulation resistance	>2000				MΩ
Cable length	1.5				m
Cable type	6-wire, PVC, single floating screen				Standard
Construction	Plated (anodize) aluminum				
Environmental protection	IP66				
Platform size (max.)	400 × 400				mm
Recommended torque	10.0				N*m

* 50% utilization

** 60% utilization

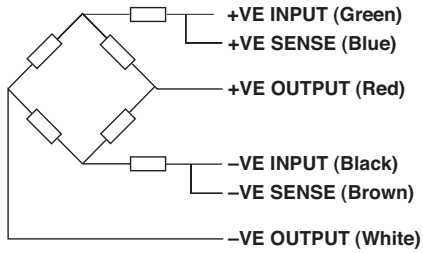
All specifications subject to change without notice.

CERTIFICATION MARKINGS

ATEX/IECEx/UKEX markings (for Zone 0,1,2 and Zone 20,21,22)
II 1 GD
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -20°C to +40/70°C

ATEX/UKEX markings (for Zone 2 and Zone 22 only)
II 3GD
Ex ec IIC T6 Gc
Ex tc IIIC T85°C Dc
Ta = -20 to +40°C
or
II 3GD
Ex ec IIC T4 Gc
Ex tc IIIC T135°C Dc
Ta = -20 to +70°C

WIRING SCHEMATIC DIAGRAM
(Balanced temperature compensation)



FM Approval markings (USA and Canada)
IS Class I, II, III, Division 1,
Groups A, B, C, D, E, F and G; T4
Ta = -25°C to +40°C

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