

# Model 1042

## Single Point Load Cells

ENHANCED



### Features

- ◆ Capacities: 1 - 100 kg (2.20 - 220.46 lbs)
- ◆ Anodized aluminum construction
- ◆ 6 wire (sense) circuit
- ◆ Single point 16 inch x 16 inch platform
- ◆ IP66 protection
- ◆ NTEP approved 5000 divisions
- ◆ OIML approved **6000** divisions

Models 1042 is a low profile, two -beam single point load cell designed for direct mounting of low cost weighing platforms, ideally suited for retail, bench and counting scales.

Available in anodized aluminum, this high-accuracy load cell is approved to NTEP 5000 divisions and other stringent approval standards, including OIML R60 C4 and OIML R60 C3, 30% utilization.

A special humidity - resistant, IP66, protective coating assures long term stability over the entire compensated temperature range. Interchangeable, replacement to industry standard models 1040, 1041, 1140 (stainless).

Tedea-Huntleigh, with models ranging from 1 to 50,000 kg capacities, is the world's largest manufacturer of precision load cells.

#### Also Available from Tedea-Huntleigh

Also in this range, a stainless steel, bolt hole compatible version designated model 1140 is available for applications unsuitable for load cells of aluminum construction.

For further details please contact the factory or your local distributor.

**TEDEA** **th**  
**HUNTLEIGH**  
EXCELLENCE IN LOAD CELLS

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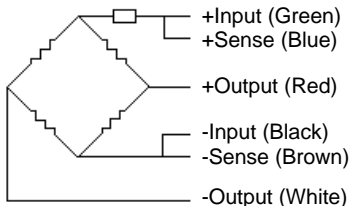
# Single Point Load Cells

ACCURACY CLASS	Z	M	E	F	G	G5	G3	I*	I5**	UNITS
OIML ACCURACY CLASS			C1	C2	C3	C3 / 50	C3 / 30			
NTEP ACCURACY CLASS/NMAX			III / 1500	III / 2000	III / 3000				III / 5000	
Rated Capacity (R.C.)	1, 3, 5, 7, 10, 15, 20, 30, 50, 75, 100									kg
Rated Output (R.O.)	2									mV/V
Rated Output Tolerance	0.2									±mV/V
Zero Balance	0.2									±mV/V
Total Error Per OIML R60	0.075	0.05	0.03	0.02	0.02	0.02	0.02			± % of R.O.
Total Error Per NIST Handbook 44			0.03	0.02	0.02				0.02	± % of R.O.
Creep and Zero Return (30 min.)	0.07	0.07	0.05	0.025	0.017	0.017	0.017		0.033	± % of load
Temperature Effect: On Output	0.07	0.005	0.003	0.0014	0.001	0.001	0.001		0.001	± % of load / °C
Temperature Effect: On Zero	0.025	0.025	0.01	0.006	0.004	0.0023	0.0014	0.0023	0.0014	± % of R.O. / °C
Temperature Range: Safe	-30 to +70									°C
Temperature Range: Compensated	-10 to +40									°C
NTEP V min.					RC/3500			RC/6000	RC/10000	kg
Eccentric Loading Error	0.015	0.015	0.0074	0.0074	0.0049	0.0049	0.0049		0.0049	± % of load / cm
Maximum Recommended Platform Size	40 x 40									cm
Maximum Safe Static Overload (central loading)	150									% of R.C. % of R.C.
Ultimate Static Overload (central loading)	300									mm Volts AC or DC
Deflection	< 0.4									Volts AC or DC
Excitation: Recommended	10									Ohms
Excitation: Maximum	15									Ohms
Input Impedance	415 ± 15									MegaOhms
Output Impedance	350 ± 3									kg
Insulation Resistance	> 2000									
Weight (nominal)	0.30									
Cable Type	6 conductors, 26 AWG, shielded, PVC jacket, 1 meter									
Cable Code	+exc - green, +sig - red, +sen - blue -exc - black, -sig - white, -sen - brown									
Construction	anodized aluminum, except 1 and 3 kg capacities									
Environmental Protection	IP 66									
Approvals	NTEP (5000 divisions) and OIML (4000 divisions)									

NOTES : Balanced span temperature compensation optional. \* 85% Utilization standard, other utilization available on request . \*\* 50% Utilization standard, other utilization available on request

## Wiring Schematic Diagram

Unbalanced Bridge Configuration  
(Balanced option available)



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

4 Mounting holes  
1/4 - 20 UNC - 2B  
X.40 min. full thread

## Outline Dimensions All Capacities (in inches)

