



Load Cells

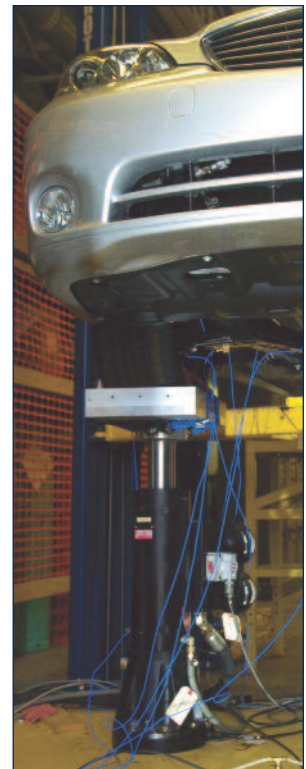
For Test, Measurement, & Monitoring Requirements in Automotive, Aerospace, R&D, and Process Control Applications

Highlights

- Low Deflection; High Accuracy
- Fatigue-rated Versions
- Low Profile
- Temperature & Pressure Compensated
- A2LA Accredited Calibration
- NIST Traceable Calibration

Applications

- Materials Testing
- Component Life Cycle Testing
- Structural Testing
- Bumper Impact
- Press Applications
- Torque Arm



Strain Gage Load Cells

PCB® Piezotronics, Inc. manufactures a wide range of high-accuracy, strain gage load cells for aerospace, automotive, industrial, and process control applications.

General purpose load cells are suitable for a wide range of routine static force measurement applications, including weighing, dynamometer testing, and material testing machines.

Fatigue-rated load cells are specifically designed for fatigue testing machine manufacturers and users, or any application where high cyclic loads are present. Applications include material testing, component life cycle testing, and structural testing. All fatigue-rated load cells are guaranteed against fatigue failure for 100 million fully reversed cycles.

As with all PCB® instrumentation, this equipment is complimented with toll-free applications assistance, 24-hour customer service, and is backed by a no risk policy that guarantees satisfaction or your money refunded.



Load Cells



Series Number	1303	1203	1403	1404	1621
Measurement Range	5 to 20 klb 22.24 to 88.96 kN	0.5 to 1 klb 2.224 to 44.48 kN	1 to 5 klb 4.448 to 22.24 kN	10 to 25 klb 44.5 to 111 kN	1000 lb 4.45 kN
Overload Limit	7.5 to 30 klb 33.36 to 133.45 kN	0.750 to 15 klb 3.336 to 66.72 kN	2 to 10 klb 8.896 to 44.48 kN	20 to 50 klb 89 to 222.4 kN	5000 lb 22.3 kN
Sensitivity	2 mV/V	2 - 3 mV/V	1 to 1.5 mV/V	1.5 mV/V	2 mV/V
Non-Linearity	≤ 0.2 % FS	≤ 0.05 % FS	≤ 0.05 % FS	≤ 0.05 % FS	≤ 0.05 % FS
Hysteresis	≤ 0.2 % FS	≤ 0.05 % FS	≤ 0.05 % FS	≤ 0.05 % FS	≤ 0.05 % FS
Non-Repeatability	≤ 0.05 % FS	≤ 0.02 % FS	≤ 0.02 % FS	≤ 0.02 % FS	≤ 0.02 % FS
Temperature Range	-65 to +200 °F -54 to +93 °C	-65 to +200 °F -54 to +93 °C	-65 to +200 °F -54 to +93 °C	-65 to +200 °F -54 to +93 °C	-65 to +200 °F -54 to +93 °C
Bridge Resistance	350 ohm	700 ohm	700 ohm	700 ohm	350 ohm
Excitation Voltage	10 VDC	10 VDC	10 VDC	10 VDC	10 VDC
Size	1.71 x 4.5 in 43.4 x 114.3 mm	4.12 x 1.37 in 104.6 x 34.8 mm	4.12 x 1.37 in 104.6 x 34.8 mm	6.06 x 1.75 in 153.9 x 44.5 mm	2.25 x 1.00 x 2.75 in 5.72 x 25.4 x 69.9 mm
Mounting	1 - 14 Thread	5/8 - 18 Thread	5/8 - 18 Thread	1 1/4 - 12 Thread	1/2 - 20 Thread
Electrical Connector	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P

Additional Versions

Alternate Electrical Connector	—	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	—
Alternate Mounting	—	M1203	M1403	M1404	—

Additional Accessories

Mounting Bases	—	084A100 M084A100	084A100 M084A100	084A101 M084A101	—
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Recommended Signal Conditioners for Load Cells

Series 8159	Model 8162	Series 8161
Provides 5 or 10 VDC strain gauge bridge excitation which delivers ± 10 VDC and 4 to 20 mA output signals, and operates from 115 or 230 VAC power	In-line, IP66 enclosure, operates from 12 to 18 VDC, provides 10 VDC sensor excitation, delivers ± 10 V and 4 to 20 mA outputs	Provides 5 or 10 VDC bridge excitation, and delivers ± 5 or ± 10 volts and 4-20 mA output signals, and operates from 12 to 28 VDC power. Adjustable zero and span with built-in shunt calibration.

Accessories



Cable Assemblies



Mounting Base



Corporate Headquarters

3425 Walden Avenue, Depew, NY 14043-2495 USA

Toll-Free in USA 888-684-0014

24-hour SensorLineSM 716-684-0001

Fax 248-478-2094 E-mail automotivesales@pcb.com

www.pcb.com

AS9100 CERTIFIED ■ ISO 9001 CERTIFIED ■ A2LA ACCREDITED to ISO 17025

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