



Dual Bridge Load Cells

For Aerospace Applications

Highlights

- Dual Bridge Output
- High Accuracy
- Temperature & Moment Compensation
- NIST Traceable, A2LA Accredited Calibration to ISO 17025

Applications

- Airframe Structural Test Applications
- Fatigue Testing
- Material Testing
- Rocket Thrust
- Weighing
- Process Monitoring



**PCB Load & Torque Series 1400
Dual Bridge Load Cell**
(Mounting Base is Included)



PCB Load & Torque, Inc., a wholly-owned subsidiary of PCB Piezotronics, manufactures a wide range of high-accuracy, strain gage load cells for aerospace, automotive, industrial, and process control applications.

Series 1400 includes a dual output feature that offers sensor redundancy and the ability to provide control feedback from one sensor while the other is used for data acquisition. These load cells are available in multiple ranges and have a NIST traceable, A2LA accredited calibration to ISO 17025, in both tension and compression directions. Additional features include low deflection, high accuracy and repeatability, thermal compensation and moment compensation.

Fatigue-rated load cells are specifically designed for durability 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 Load & Torque manufactured instrumentation, this equipment is complimented with toll-free application assistance, 24-hour customer support, and the industry's only commitment to Total Customer Satisfaction.



Dual Bridge Load Cell

Dual Bridge Load Cells



Model Number	1403-05ADB	1404-02ADB	1404-03ADB	1408-02ADB	1411-02ADB
Measurement Range	5k lb / 22k N	12.5k lb / 56k N	25k lb / 111k N	50k lb / 222k N	100k lb / 445k N
Sensitivity	2 mV/V	2 mV/V	2 mV/V	2 mV/V	2 mV/V
Excitation Voltage - Max	20 VDC	20 VDC	20 VDC	20 VDC	20 VDC
Bridge Resistance	350 ohms	350 ohms	350 ohms	350 ohms	350 ohms
Non-Linearity	0.04 % F.S	0.05 % F.S	0.05 % F.S	0.05 % F.S	0.06 % F.S
Hysteresis	0.04 % F.S	0.05 % F.S	0.05 % F.S	0.05 % F.S	0.06 % F.S
Non-Repeatability	0.02 % F.S	0.02 % F.S	0.02 % F.S	0.02 % F.S	0.02 % F.S
Temperature Range	-65 to 200 F -53 to +93 C	-65 to 200 F -53 to +93 C	-65 to 200 F -53 to +93 C	-65 to 200 F -53 to +93 C	-65 to 200 F -53 to +93 C
Connector (2)	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P
Mounting	5/8-18 Thread	1 1/4-12 Thread	1 1/4-12 Thread	1 3/4-12 Thread	2 3/4-8 Thread
Accessories					
Shunt Resistor	100-11176-30	100-11176-30	100-11176-30	100-11176-30	100-11176-30
Optional Accessories					
Cable	8311-01-10A	8311-01-10A	8311-01-10A	8311-01-10A	8311-01-10A
Connector Protectors	084A90	084A90	084A90	(2) Supplied	(2) Supplied
Lifting Eyebolt	—	—	—	—	080A40
Lifting Plug for Eyebolt	—	—	—	—	080A41
Pre-tension Stud	084A55	084A56	084A57	084A58	084A59

Accessories



Cable Assemblies



**Connector Protectors
(Shown Installed)**

Call today or visit www.pcbloadtorque.com
for a complete line
of Load Cell products.



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

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