


Model Number <b>M1403-04B</b>	<b>STRAIN GAGE LOAD CELL</b>			Revision A ECN #: 36063
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Measurement Range (100 x 10 <sup>6</sup> cycles)	2810 lb	12.5 kN	[5]	<b>Notes</b> [1] Nominal. [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [3] Singularly applied, i.e. no other extraneous loads. [4] Over compensated operating temperature range. [5] FS - Full Scale. [6] RO - Rated Output.
Sensitivity (±10 %)	1.5 mV/V	1.5 mV/V	[6]	
Non-Linearity	≤0.05 % FS	≤0.05 % FS		
Hysteresis	≤0.05 % FS	≤0.05 % FS		
Non-Repeatability	≤0.02 %RO	≤0.02 %RO		
Resonant Frequency	7.0 kHz	7.0 kHz		
Creep	0.03 %	0.03 %		
<b>Environmental</b>				<b>Optional Accessories</b>
Overload Limit	5000 lb	22 kN		182-025A PCO6A-10-6S(SR) ()
Load Limit (Side Force, F <sub>x</sub> or F <sub>y</sub> )	2500 lb	11 kN	[3]	8315-01-10A CABLE ()
Load Limit (Bending Moment, M <sub>x</sub> or M <sub>y</sub> )	2500 in-lb	282 Nm	[3]	M084A100 TENSION LOAD BASE W/ M16X2 THD ()
Load Limit (Axial Torque, M <sub>z</sub> )	2500 in-lb	282 Nm	[3]	
Temperature Range (Operating)	-65 to +200 °F	-54 to +93 °C		
Temperature Range (Compensated)	+70 to +170 °F	+21 to +77 °C		
Temperature Effect on Output (Maximum)	±0.002 %Reading/°F	±0.0036 %Reading/°C	[4]	
Temperature Effect on Zero Balance (Maximum)	±0.001 %FS/°F	±0.0018 %FS/°C	[4]	
<b>Electrical</b>				
Bridge Resistance	700 Ohm	700 Ohm	[1]	
Excitation Voltage (Recommended)	10 VDC	10 VDC	[2]	
Insulation Resistance	>5x10 <sup>9</sup> Ohm	>5x10 <sup>9</sup> Ohm		
Zero Balance	≤1 %RO	≤1 %RO		
<b>Physical</b>				
Size (Diameter x Height)	4.12 in x 1.37 in	104.6 mm x 34.8 mm		
Weight	2.88 lb	1.31 kg		
Mounting Thread	No English Equivalent	M16 x 2-4H Female		
Housing Material	Painted Steel	Painted Steel		
Sensing Element	Strain Gage	Strain Gage		
Mounting Torque	200 in-lb	23 Nm		
Deflection at Full Scale Capacity	0.001 in	0.03 mm		
Electrical Connector	PC04E-10-6P	PC04E-10-6P		
Electrical Connection Position	Side	Side		
<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>ICP® is a registered trademark of PCB group, Inc.</p>				
Entered: JC	Date:	09/22/2011	Engineer: ECB	Date: 09/22/2011
				Spec Number: <b>48493</b>
				
<p>Company: PCB Load &amp; Torque, Inc.          Address: 24350 Indoplex Circle          Farmington Hills, MI 48335          UNITED STATES          Phone: 866-684-7107          Fax: 716-684-0987          E-mail: <a href="mailto:ltinfo@pcbloadtorque.com">ltinfo@pcbloadtorque.com</a>          Web site: <a href="http://www.pcbloadtorque.com">http://www.pcbloadtorque.com</a></p>				