


Model Number <b>1411-02A</b>		<b>STRAIN GAGE LOAD CELL</b>			Revision: A ECN #: 34373	
<b>Performance</b>		<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>	
Measurement Range(100 x 10 <sup>6</sup> cycles)	100 klb	445 kN	[5]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
Sensitivity(± 10 %)	1.5 mV/V	1.5 mV/V	[6]			
Non-Linearity	≤ 0.2 % FS	≤ 0.2 % FS				
Hysteresis	≤ 0.2 % FS	≤ 0.2 % FS				
Non-Repeatability	≤ 0.05 %RO	≤ 0.05 %RO				
Resonant Frequency	7.7 kHz	7.7 kHz				
Creep	0.03 %	0.03 %				
<b>Environmental</b>				<b>NOTES:</b>		
Overload Limit	200 klb	900 kN		[1] Nominal.		
Load Limit(Side Force, F <sub>X</sub> or F <sub>Y</sub> )	100 klb	445 kN	[3]	[2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.		
Load Limit(Bending Moment, M <sub>X</sub> or M <sub>Y</sub> )	100k in-lb	11.3k N-m	[3]	[3] Singularly applied, i.e. no other extraneous loads.		
Load Limit(Axial Torque, M <sub>Z</sub> )	100k in-lb	11.3k N-m	[3]	[4] Over compensated operating temperature range.		
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C		[5] FS - Full Scale.		
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C		[6] RO - Rated Output.		
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>				<b>OPTIONAL ACCESSORIES:</b>		
Bridge Resistance	700 ohm	700 ohm	[1]	Model 084A104 TENSION LOAD BASE, 11"		
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	Model 181-012A PT06A-10-6S(SR)		
Insulation Resistance	>5x10 <sup>9</sup> ohm	>5x10 <sup>9</sup> ohm		Model 8311-01-10A CABLE		
Zero Balance	≤ 1.0 %RO	≤ 1 %RO				
<b>Physical</b>				Entered: <i>tomw</i> Engineer: <i>gub</i> Sales: <i>oc</i> Approved: <i>gub</i> Spec Number:		
Size (Diameter x Height)	11 in x 3.5 in	279.4 mm x 88.9 mm		Date: <i>11/15/10</i>	Date: <i>11/15/10</i>	Date: <i>11/15/10</i>
Weight	70 lb	32.66 kg		Date: <i>11/15/10</i>	Date: <i>11/15/10</i>	23824
Mounting Thread	2 3/4 - 8 Female	No Metric Equivalent				
Mounting Torque	6000 in-lb	678 N-m				
Deflection at Full Scale Capacity	0.001 in	0.025 mm				
Sensing Element	Strain Gage	Strain Gage				
Housing Material	Painted Steel	Painted Steel				
Electrical Connector	PT02E-10-6P	PT02E-10-6P				
Electrical Connection Position	Side	Side				
<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p><i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i></p> <p>ICP® is a registered trademark of PCB Group, Inc.</p>						
				 <p><b>PCB LOAD &amp; TORQUE</b> A PCB GROUP COMPANY</p> <p><b>PCB Load &amp; Torque, Inc.</b> 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>		