


Model Number <b>M1403-03A</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)		1124 lb	5000 N	
Sensitivity (±10 %)		1 mV/V	1 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		5.5 kHz	5.5 kHz	
Creep		0.03 %	0.03 %	
<b>Environmental</b>				
Overload Limit		2000 lb	8900 N	
Load Limit (Side Force, F <sub>x</sub> or F <sub>y</sub> )		1000 lb	4450 N	[3]
Load Limit (Bending Moment, M <sub>x</sub> or M <sub>y</sub> )		1000 in-lb	113 Nm	[3]
Load Limit (Axial Torque, M <sub>z</sub> )		1000 in-lb	113 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		0.0005 in	0.013 mm	
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>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	Engineer: ECB			Spec Number:
Date:	Date:			<b>48488</b>
09/22/2011	09/22/2011			
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