

Model Number <b>M1403-02B</b>	<b>STRAIN GAGE LOAD CELL</b>	Revision: A ECN #: 36063
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Measurement Range(100 x 10 <sup>6</sup> cycles)	562 lb	2500 N	[5]
Sensitivity(± 10 %)	1.0 mV/V	1.0 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	3.5 kHz	3.5 kHz	
Creep	.03 %	.03 %	
<b>Environmental</b>			
Overload Limit	1000 lb	4448 N	
Load Limit(Side Force, F <sub>X</sub> or F <sub>Y</sub> )	500 lb	2220 N	[3]
Load Limit(Bending Moment, M <sub>X</sub> or M <sub>Y</sub> )	500 in-lb	56 N-m	[3]
Load Limit(Axial Torque, M <sub>Z</sub> )	500 in-lb	56 N-m	[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	≤ 1.0 %RO	≤ 1.0 %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	
Mounting Torque	200 in-lb	23 N-m	
Deflection at Full Scale Capacity	0.001 in	0.025 mm	
Sensing Element	Strain Gage	Strain Gage	
Housing Material	Stainless Steel	Stainless Steel	
Electrical Connector	PC04E-10-6P	PC04E-10-6P	
Electrical Connection Position	Side	Side	

All specifications are at room temperature unless otherwise specified.  
 In the interest of constant product improvement, we reserve the right to change specifications without notice.  
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**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.


**NOTES:**

[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.

**OPTIONAL ACCESSORIES:**

Model 182-025A PCO6A-10-6S(SR)  
 Model 8315-01-10A CABLE  
 Model M084A100 TENSION LOAD BASE W/ M16X2 THD

Entered: DMW	Engineer: GLB	Sales: JC	Approved: GLB	Spec Number:
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