


Model Number M1630-04C		STRAIN GAGE LOAD CELL			Revision: D ECN #: 43825	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range	112 lb	500 N	[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 %)	2 mV/V	2 mV/V	[6]			
Non-Linearity	≤ 0.15 % FS	≤ 0.15 % FS				
Hysteresis	≤ 0.15 % FS	≤ 0.15 % FS				
Non-Repeatability	≤ 0.05 %RO	≤ 0.05 %RO				
Resonant Frequency	1.8 kHz	1.8 kHz				
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %		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. [7]See Outline Drawing 46140 for Complete Dimensions		
Environmental						
Overload Limit	168 lb	750 N				
Load Limit(Side Force, F _X or F _Y)	11.2 lb	50 N	[3]			
Load Limit(Bending Moment, M _X or M _Y)	22.1 in-lb	2.5 Nm	[3]			
Load Limit(Axial Torque, M _Z)	22.1 in-lb	2.5 Nm	[3]			
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C				
Temperature Range(Compensated)	+75 to +150 °F	+21 to +65 °C				
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0036 %Reading/°C	[4]			
Temperature Effect on Zero Balance(Maximum)	± 0.0015 %FS/°F	± 0.027 %FS/°C	[4]			
Electrical				Entered: AP Engineer: PE Sales: JC Approved: JSD Spec Number:		
Bridge Resistance	350 Ohm	350 Ohm	[1]	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	Date: 2/16/2015	Date: 2/16/2015	46002
Insulation Resistance	>5x10 ⁹ Ohm	>5x10 ⁹ Ohm		 <p>PCB Load & Torque, Inc. 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com</p>		
Zero Balance	≤ 1 % FS	≤ 1 % FS				
Output Polarity	+Tension	+Tension				
Physical						
Size (Length x Height x Width)	2.00 in x 2.50 in x 0.625 in	51 mm x 64 mm x 16 mm	[7]			
Weight	0.23 lb	104 g				
Housing Material	Aluminum	Aluminum				
Sensing Element	Strain Gage	Strain Gage				
Deflection at Full Scale Capacity	0.002 in	0.05 mm				
Electrical Connector	10 ft - Integrated Cable	10 ft - Integrated Cable				
Electrical Connection Position	Side	Side				
<i>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.</i>						