


Model Number M1203-01A		STRAIN GAGE LOAD CELL			Revision: B ECN #: 37851		
Performance		ENGLISH		SI		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.	
Measurement Range	562 lb	2500 N	[5]				
Sensitivity(± 10 %)	2 mV/V	2 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	2.35 kHz	2.35 kHz					
Environmental				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.			
Overload Limit	750 lb	3336 N					
Load Limit(Side Force, F _X or F _Y)	250 lb	1112 N	[3]				
Load Limit(Bending Moment, M _X or M _Y)	250 in-lb	28.25 N-m	[3]				
Load Limit(Axial Torque, M _Z)	250 in-lb	28 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]				
Electrical						OPTIONAL ACCESSORIES: Model 181-012A PT06A-10-6S(SR) Model M084A100 TENSION LOAD BASE W/ M16X2 THD	
Bridge Resistance	700 ohm	700 ohm	[1]				
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]				
Insulation Resistance	>5x10 ⁹ ohm	>5x10 ⁹ ohm					
Zero Balance	≤ 1 % FS	≤ 1 % FS					
Physical							
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					
Sensing Element	Strain Gage	Strain Gage					
Deflection at Full Scale Capacity	0.002 in	0.05 mm					
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. 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>							
Entered: DMW		Engineer: JSD		Sales: JC		Approved: GLB	Spec Number:
Date: 12/6/2011		Date: 12/6/2011		Date: 12/6/2011		Date: 12/6/2011	
						46107	
				 <p>PCB Load & Torque, Inc. 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: Itinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com</p>			