

Model Number 1381-02A		ROD END LOAD CELL			Revision: D ECN #: 43827
Performance		<u>ENGLISH</u>	<u>SI</u>		OPTIONAL VERSIONS
Measurement Range		10 klbf	44 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 %)		2 mV/V	2 mV/V	[6]	
Non-Linearity		≤ 0.25 % FS	≤ 0.25 % FS		
Hysteresis		≤ 0.15 % FS	≤ 0.15 % FS		
Non-Repeatability		≤ 0.05 %RO	≤ 0.05 %RO		
Resonant Frequency		9 kHz	9 kHz		
Environmental					
Overload Limit		15 klbf	67 kN		
Load Limit(Side Force, F _X or F _Y)		1400 lbf	6228 N	[3]	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 45728 for complete dimensions.
Load Limit(Bending Moment, M _X or M _Y)		4000 inf-lb	451 Nm	[3]	
Load Limit(Axial Torque, M _Z)		4500 inf-lb	508 Nm	[3]	
Temperature Range(Operating)		-20 to +200 °F	-28 to +93 °C		
Temperature Range(Compensated)		+70 to +170 °F	+21 to +77 °C		
Temperature Effect on Output(Maximum)		± 0.01 %Reading/°F	± 0.018 %Reading/°C	[4]	
Temperature Effect on Zero Balance(Maximum)		± 0.005 %FS/°F	± 0.009 %FS/°C	[4]	
Electrical					OPTIONAL ACCESSORIES: Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE
Bridge Resistance		350 Ohm	350 Ohm	[1]	
Excitation Voltage(Recommended)		10 VDC	10 VDC	[2]	
Insulation Resistance		>5x10 ⁹ Ohm	>5x10 ⁹ Ohm		
Zero Balance		≤ 1 % FS	≤ 1 % FS		
Output Polarity		Positive	Positive		
Output Polarity		+Tension	+Tension		
Physical					
Size (Diameter x Height)		1.50 in x 4.50 in	38.1 mm x 114.3 mm	[7]	Entered: AP Engineer: PE Sales: JC Approved: JSD Spec Number:
Weight		1.1 lb	500 g		Date: 2/17/2015 Date: 2/17/2015 Date: 2/17/2015 Date: 2/17/2015 45859
Mounting Thread		1 - 14 Male	No Metric Equivalent		
Mounting Thread		1 - 14 Female	No Metric Equivalent		
Cover Material		Anodized Aluminum	Anodized Aluminum		
Sensing Element		Strain Gage	Strain Gage		
Deflection at Full Scale Capacity		0.0022 in	0.056 mm		
Electrical Connector		PT02E-10-6P	PT02E-10-6P		
<i>All specifications are at room temperature unless otherwise specified.</i> <i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i>					
 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					