

Model Number 1381-04A	ROD END LOAD CELL				Revision: D ECN #: 43827
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Measurement Range	20 klb	89 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	15 kHz	15 kHz			
Environmental					
Overload Limit	30 klb	133 kN			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(Side Force, F _X or F _Y)	2400 lbf	10.7 kN	[3]		
Load Limit(Bending Moment, M _X or M _Y)	6500 inf-lb	734 Nm	[3]		
Load Limit(Axial Torque, M _Z)	7500 inf-lb	847 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]		OPTIONAL ACCESSORIES: Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE
Temperature Effect on Zero Balance(Maximum)	± 0.005 %FS/°F	± 0.009 %FS/°C	[4]		
Electrical					
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]		
Weight	1.2 lb	544 g			
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	0.0012 in	0.030 mm			
Electrical Connector	PT02E-10-6P	PT02E-10-6P			
<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>					
				Entered: AP	Engineer: PE
				Sales: JC	Approved: JSD
				Spec Number:	
				Date: 2/17/2015	Date: 2/17/2015
				Date: 2/17/2015	Date: 2/17/2015
				45860	
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