

Performance	ENGLISH	SI	
Measurement Range	1000 lbf	4448 N	[6][7]
Sensitivity(± 10 %)(RO)	2.0 mV/V	2.0 mV/V	[3][1]
Non-Linearity	≤ 0.04 % FS	≤ 0.04 % FS	[6][8]
Hysteresis	≤ 0.03 % FS	≤ 0.03 % FS	[6][8]
Non-Repeatability	≤ 0.01 %RO	≤ 0.01 %RO	[3][8]
Eccentric Load Sensitivity	0.25 %/in	0.25 %/25.4mm	[8]
Resonant Frequency	3.5 kHz	3.5 kHz	
Side Load Sensitivity	0.25 %/in	0.25 %/25.4mm	[8]
Creep(in 20 minutes)	0.025 %	0.025 %	[8]
Static Error Band	≤ 0.04 % FS	≤ 0.04 % FS	[6][8]
Environmental			
Overload Limit	1500 lbf	6672 N	
Load Limit(Side Force, F _X or F _Y)	500 lbf	2224 N	[4]
Load Limit(Bending Moment, M _X or M _Y)	500 lbf-in	56 Nm	[4]
Load Limit(Axial Torque, M _Z)	500 lbf-in	56 Nm	[4]
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C	
Temperature Range(Compensated)	+15 to +115 °F	-9 to +46 °C	
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0018 %Reading/°C	[5]
Temperature Effect on Zero Balance(Maximum)	± 0.0008 %FS/°F	± 0.0018 %FS/°C	[5]
Electrical			
Bridge Resistance	350 Ohm	350 Ohm	[1]
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]
Insulation Resistance	>5K GOhm	>5K GOhm	
Zero Balance	± 1 %RO	± 1 % FS	[3]
Output Polarity	+Tension	+Tension	
Physical			
Size (Diameter x Height)	4.12 in x 2.50 in	104.6 mm x 63.5 mm	[9]
Weight	6.4 lb	2.9 kg	
Mounting Thread	5/8 - 18 UNF-3B	No Metric Equivalent	
Housing Material	Painted Steel	Painted Steel	
Sensing Element	Strain Gage	Strain Gage	
Mounting Torque	200 lbf-in	23 Nm	
Deflection at Full Scale Capacity	0.001 in	0.025 mm	
Electrical Connector	PT02E-10-6P	PT02E-10-6P	

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.

1203-12B - PC04E-10-6P Connector

1203-12C - PT02E-12-8P Connector

1203-12D - PC01E-12-8P Connector

NOTES:

[1]Nominal.
 [2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
 [3]RO - Rated Output.
 [4]Singularly applied, i.e. no other extraneous loads.
 [5]Over compensated operating temperature range.
 [6]FS - Full Scale.
 [7]Calibrated in tension and compression.
 [8]Performance specifications guaranteed with factory installed optional Tension Base 084A100
 [9]See Outline Drawing 49605 for Complete Dimensions

OPTIONAL ACCESSORIES:

Model 084A100 TENSION LOAD BASE W/ 5/8-18 UNF-3B THD
 Model 084A55 Pre-Tension Stud
 Model 084A90 Connector Shroud
 Model 181-012A PT06A-10-6S(SR)
 Model 8311-01-10A CABLE

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*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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