Model Number	STRAIN GAGE LOAD CELL	Revision: C
M1203-03A		ECN #: 37596

Performance	**ENGLISH**	**SI**	
Measurement Range	2248 lb	10 kN	[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	5.5 kHz	5.5 kHz	
Environmental			
Overload Limit	3372 lb	15 kN	
Load Limit(Side Force, F_X or F_Y)	1124 lb	5 kN	[3]
Load Limit(Bending Moment, M_X or M_Y)	1124 in-lb	127 Nm	[3]
Load Limit(Axial Torque, M_Z)	1124 in-lb	127 Nm	[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			
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	
Housing Material	Painted Steel	Painted Steel	
Sensing Element	Strain Gage	Strain Gage	
Deflection at Full Scale Capacity	0.001 in	0.03 mm	
Electrical Connector	PT02E-10-6P	PT02E-10-6P	
Electrical Connection Position	Side	Side	

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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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.

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.

OPTIONAL ACCESSORIES:

Model 181-012A PT06A-10-6S(SR)
Model M084A100 TENSION LOAD BASE W/ M16X2 THD

Entered: AP	Engineer: PE	Sales: KWW	Approved: DA	Spec Number:
Date: 11/5/2013	Date: 11/5/2013	Date: 11/5/2013	Date: 11/5/2013	**46111**

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