

Model Number 1404-02ADB	FATIGUE RATED LOW PROFILE LOAD CELL, DUAL BRIDGE			Revision: F ECN #: 43840										
Performance	ENGLISH	SI		OPTIONAL VERSIONS										
Measurement Range(100 x 10 ⁶ cycles)	12.5 klb	56 kN	[5][6]	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 %)	2.0 mV/V	2.0 mV/V	[7][1]											
Non-Linearity	≤ 0.05 % FS	≤ 0.05 % FS												
Hysteresis	≤ 0.05 % FS	≤ 0.05 % FS												
Non-Repeatability	≤ 0.02 %RO	≤ 0.02 %RO												
Eccentric Load Sensitivity	0.1 %/in	0.1 %/25.4mm												
Resonant Frequency	12 kHz	12 kHz												
Side Load Sensitivity	0.1 %/in	0.1 %/25.4mm												
Creep(in 20 minutes)	0.025 %	0.025 %												
Static Error Band	≤ 0.05 % FS	≤ 0.05 % FS	[5]											
Environmental				NOTES:										
Overload Limit	37.5 klb	167 kN		[1]Nominal.										
Load Limit(Side Force, F _X or F _Y)	10 klb	44 kN	[3]	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.										
Load Limit(Bending Moment, M _X or M _Y)	10k in-lb	1130 Nm	[3]	[3]Singularly applied, i.e. no other extraneous loads.										
Load Limit(Axial Torque, M _Z)	10k in-lb	1130 Nm	[3]	[4]Over compensated operating temperature range.										
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C		[5]FS - Full Scale.										
Temperature Range(Compensated)	+15 to +115 °F	-9 to +46 °C		[6]Calibrated in tension and compression.										
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0018 %Reading/°C	[4]	[7]RO - Rated Output.										
Temperature Effect on Zero Balance(Maximum)	± 0.0008 %FS/°F	± 0.0018 %FS/°C	[4]	[8]See Outline Drawing 49932 for Complete Dimensions										
Electrical				SUPPLIED ACCESSORIES:										
Bridge Resistance	350 Ohm	350 Ohm	[1]	Model 084A90 Connector Shroud (2)										
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]											
Insulation Resistance	>5k GOhm	>5k GOhm		OPTIONAL ACCESSORIES:										
Zero Balance	≤ 1 %RO	≤ 1 %RO		Model 084A56 Pre-Tension Stud										
Output Polarity	+Tension	+Tension		Model 181-012A PT06A-10-6S(SR)										
				Model 8311-01-10A CABLE										
Physical														
Size (Diameter x Height)	6.06 in x 3.50 in	153.90 mm x 88.90 mm	[8]											
Weight	21 lb	4.53 kg												
Mounting Thread	1 1/4 - 12 UNF-3B	No Metric Equivalent												
Sensing Element	Strain Gage	Strain Gage												
Mounting Torque	1400 in-lb	158 Nm												
Deflection at Full Scale Capacity	0.001 in	0.03 mm												
Electrical Connector	PT02E-10-6P (2)	PT02E-10-6P (2)												
<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>														
		<table border="1"> <tr> <td>Entered: AP</td> <td>Engineer: PE</td> <td>Sales: RWM</td> <td>Approved: JSD</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td>48434</td> </tr> </table>		Entered: AP	Engineer: PE	Sales: RWM	Approved: JSD	Spec Number:	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	48434	
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