

Model Number M1403-04ADB	FATIGUE RATED LOW PROFILE LOAD CELL, DUAL BRIDGE, METRIC	Revision: NR ECN #: 43937
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	ENGLISH	SI	
Performance			
Measurement Range(100 x 10 ⁶ cycles)	2810 lbf	12.5 kN	[5][6]
Sensitivity(± 10 %)	2.0 mV/V	2.0 mV/V	[7][1]
Non-Linearity	≤ 0.04 % FS	≤ 0.04 % FS	
Hysteresis	≤ 0.04 % FS	≤ 0.04 % FS	
Non-Repeatability	≤ 0.02 %RO	≤ 0.02 %RO	
Eccentric Load Sensitivity	0.1 %/in	0.1 %/25.4mm	
Resonant Frequency	10 kHz	10 kHz	
Side Load Sensitivity	0.1 %/in	0.1 %/25.4mm	
Creep(in 20 minutes)	0.025 %	0.025 %	
Static Error Band	≤ 0.04 % FS	≤ 0.04 % FS	[5]
Environmental			
Overload Limit	8.4 klb	37.5 kN	
Load Limit(Side Force, F _X or F _Y)	2810 lb	12.5 kN	[3]
Load Limit(Bending Moment, M _X or M _Y)	2810 in-lb	318 Nm	[3]
Load Limit(Axial Torque, M _Z)	2810 in-lb	318 Nm	[3]
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	[4]
Temperature Effect on Zero Balance(Maximum)	± 0.0008 %FS/°F	± 0.0018 %FS/°C	[4]
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 %RO	
Output Polarity	+Tension	+Tension	
Physical			
Size (Diameter x Height)	4.12 in x 2.50 in	104.60 mm x 63.50 mm	[8]
Weight	6.4 lb	2.9 kg	
Mounting Thread	No English Equivalent	M16 x 2-4H Female	
Sensing Element	Strain Gage	Strain Gage	
Mounting Torque	200 in-lb	23 Nm	
Deflection at Full Scale Capacity	0.001 in	0.03 mm	
Electrical Connector	PT02E-10-6P (2)	PT02E-10-6P (2)	

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.

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]Calibrated in tension and compression.
 [7]RO - Rated Output.
 [8]See Outline Drawing 49605 for Complete Dimensions

SUPPLIED ACCESSORIES:
 Model 084A90 Connector Shroud (2)

OPTIONAL ACCESSORIES:
 Model 181-012A PT06A-10-6S(SR)
 Model 8311-01-10A CABLE

Entered: JM	Engineer: PE	Sales: RWM	Approved: JSD	Spec Number:
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