


Model Number 1630-04C		STRAIN GAGE LOAD CELL		Revision: D ECN #: 43825
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range	100 lb	445 N	[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	≤ 0.05 % FS	≤ 0.05 % FS		
Hysteresis	≤ 0.03 % FS	≤ 0.03 % FS		
Non-Repeatability	≤ 0.02 %RO	≤ 0.02 %RO		
Resonant Frequency	1.8 kHz	1.8 kHz		
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %		
Environmental				NOTES:
Overload Limit	150 lb	667 N		[1]Nominal.
Load Limit(Side Force, F _X or F _Y)	10 lb	44.5 N	[3]	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Load Limit(Bending Moment, M _X or M _Y)	20 in-lb	2.26 Nm	[3]	[3]Singularly applied, i.e. no other extraneous loads.
Load Limit(Axial Torque, M _Z)	20 in-lb	2.26 Nm	[3]	[4]Over compensated operating temperature range.
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C		[5]FS - Full Scale.
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C		[6]RO - Rated Output.
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0015 %Reading/°C	[4]	[7]See Outline Drawing 46137 for Complete Dimensions
Temperature Effect on Zero Balance(Maximum)	± 0.0015 %FS/°F	± 0.027 %FS/°C	[4]	
Electrical				
Bridge Resistance	350 Ohm	350 Ohm	[1]	Entered: AP
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	Engineer: PE
Insulation Resistance	>5x10 ⁹ Ohm	>5x10 ⁹ Ohm		Sales: JC
Zero Balance	± 1 % FS	± 1 % FS		Approved: JSD
Physical				Spec Number:
Size (Length x Height x Width)	2.00 in x 2.50 in x 0.625 in	51 mm x 64 mm x 16 mm	[7]	Date: 2/16/2015
Weight	0.23 lb	104 g		Date: 2/16/2015
Mounting Thread	1/4-28 thread	No Metric Equivalent		Date: 2/16/2015
Housing Material	Aluminum	Aluminum		Date: 2/16/2015
Sensing Element	Strain Gage	Strain Gage		45995
Deflection at Full Scale Capacity	0.002 in	0.05 mm		
Electrical Connector	10 ft - Integrated Cable	10 ft - Integrated Cable		
Electrical Connection Position	Side	Side		
<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>				
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