


Model Number 1631-01C	STRAIN GAGE LOAD CELL		Revision: E ECN #: 43825										
Performance	ENGLISH	SI	OPTIONAL VERSIONS										
Measurement Range	500 lb	2224 N	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											
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	2.2 kHz	2.2 kHz											
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %											
Environmental			NOTES:										
Overload Limit	750 lb	3336 N	[1]Nominal.										
Load Limit(Side Force, F _X or F _Y)	50 lb	222.4 N	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.										
Load Limit(Bending Moment, M _X or M _Y)	100 in-lb	11.3 Nm	[3]Singularly applied, i.e. no other extraneous loads.										
Load Limit(Axial Torque, M _Z)	100 in-lb	11.3 Nm	[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	[7]See Outline Drawing 46138 for Complete Dimensions										
Temperature Effect on Zero Balance(Maximum)	± 0.0015 %FS/°F	± 0.027 %FS/°C											
Electrical													
Bridge Resistance	350 Ohm	350 Ohm	[1]										
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]										
Insulation Resistance	>5x10 ⁹ Ohm	>5x10 ⁹ Ohm											
Zero Balance	± 1 % FS	± 1 % FS											
Output Polarity	+Tension	+Tension											
Physical													
Size (Length x Height x Width)	2.0 in x 3.0 in x 1.0 in	51.0 mm x 76.2 mm x 25.4 mm	[7]										
Weight	0.43 lb	195 g											
Housing Material	Aluminum	Aluminum											
Sensing Element	Strain Gage	Strain Gage											
Deflection at Full Scale Capacity	0.0025 in	0.05 mm											
Electrical Connector	10 ft - Integrated Cable	10 ft - Integrated Cable											
Electrical Connection Position	Side	Side											
<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>													
		<table border="1"> <tr> <td>Entered: AP</td> <td>Engineer: PE</td> <td>Sales: JC</td> <td>Approved: JSD</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>45997</td> </tr> </table>		Entered: AP	Engineer: PE	Sales: JC	Approved: JSD	Spec Number:	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	45997
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