Model Number	STRAIN GAGE LOAD CELL	Revision: E
1631-01C		ECN #: 43825

Performance	**ENGLISH**	**SI**	
Measurement Range	500 lb	2224 N	[5]
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	2.2 kHz	2.2 kHz	
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %	
Environmental			
Overload Limit	750 lb	3336 N	
Load Limit(Side Force, F_X or F_Y)	50 lb	222.4 N	[3]
Load Limit(Bending Moment, M_X or M_Y)	100 in-lb	11.3 Nm	[3]
Load Limit(Axial Torque, M_Z)	100 in-lb	11.3 Nm	[3]
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C	
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C	
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0015 %Reading/°C	[4]
Temperature Effect on Zero Balance(Maximum)	± 0.0015 %FS/°F	± 0.027 %FS/°C	[4]
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	

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]RO - Rated Output.
[7]See Outline Drawing 46138 for Complete Dimensions

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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