

Model Number
059810-01504

CLAMP FORCE LOAD CELL

Revision: B
ECN #: 52760

	ENGLISH	SI	
Performance			
Measurement Range	112 klbF	500 kN	[1]
Sensitivity(± 10 %)(RO)	2.0 mV/V	2.0 mV/V	[2][3]
Non-Linearity	≤ 0.25 % FS	≤ 0.25 % FS	[1]
Hysteresis	≤ 0.75 % FS	≤ 0.75 % FS	[1]
Non-Repeatability	≤ 0.2 %RO	≤ 0.2 %RO	[2]
Environmental			
Overload Limit(150 %)	168 klbF	750 kN	
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)	± .001 %Reading/°F	± 0.0018 %Reading/°C	[4]
Temperature Effect on Zero	± .001 %FS/°F	± 0.0018 %FS/°C	[4]
Balance(Maximum)			
Electrical			
Bridge Resistance	700 Ohm	700 Ohm	[3]
Excitation Voltage(Recommended)	10 VDC	10 VDC	[5]
Insulation Resistance	> 5K GOhm	> 5K GOhm	
Zero Balance	± 1 %RO	± 1 % FS	[2]
Output Polarity	+ Comp	+ Comp	
Physical			
Size (Height x Width x Depth)	8.95 in x 9.50 in x 3.0 in	227 mm x 241 mm x 76 mm	[6]
Weight	33 lb	15 kg	
Housing Material	Aluminum	Aluminum	
Sensing Element	Strain Gage	Strain Gage	
Electrical Connector	PT02A-8-4P	PT02A-8-4P	

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]FS - Full Scale.
- [2]RO - Rated Output.
- [3]Nominal.
- [4]Over compensated operating temperature range.
- [5]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [6]See Outline Drawing 66771 for Complete Dimensions

SUPPLIED ACCESSORIES:

Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm (1)
Model 72736-01 Clamp Assembly (1)

Entered: ND	Engineer: PE	Sales: DM	Approved: JM	Spec Number:
Date: 05/12/2022	Date: 05/12/2022	Date: 05/12/2022	Date: 05/12/2022	66768

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.



PCB Load & Torque A Division of PCB Piezotronics
24350 Indoplex Circle Farmington Hills, MI 48335
UNITED STATES
Phone: 866-684-7107
E-Mail: LTSales@pcb.com
Web site: www.pcb.com/LoadAndTorque