

Description

GAD2045 is pancake compression type load cell & it is strain gage based sensor with temperature compensation over 0 to 60°C. This is constructed from SS 17 - 4 PH / Tool Steel suitable for harsh industrial application. It is sealed for IP 67 protection class & it has long life. It is available with integral Button for loading

Features

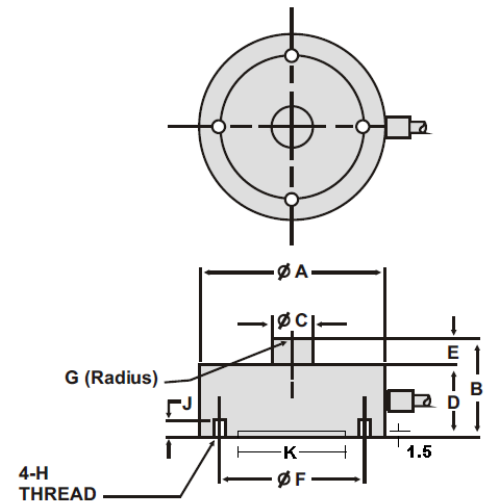
- ❖ Available in capacity 50 Kgf to 450 Tf.
- ❖ Standard output 2.0 mV/V.
- ❖ Complete environment protection IP 67 class.
- ❖ Optional IP 68 available on request.
- ❖ Dual bridge configuration available on request.

Applications

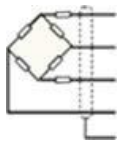
Compression Testing	Force & Impact Testing
Tablet Hardness Tester	Tank, Silo/Hoper weighing
Low profile floor scale	Robotics & Automation

Performance Specification

Standard Capacities	Kgf Tf	50, 100, 200, 500, 750,1000 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 60, 75, 100, 150, 200, 300, 450
Excitation Voltage		10 VDC- Maximum 15 VDC
Nominal Output		2.0 m V/ V
Non - Linearity		< ±0.1% FSO (Full Scale Output)
Hysteresis		< ±0.15% FSO
Non-Repeatability		< ±0.1% FSO
Creep (30 minutes)		< ±0.04% FSO
Zero Balance		±1.0% FSO
Input Resistance		390 ± 10 Ohms up to 1000 Kgf 770 ± 20 Ohms 1.5 T & Above
Output Resistance		390 ± 10 Ohms up to 1000 Kgf 700 ± 7 Ohms 1.5 T & Above
Insulation Resistance (50 VDC)		> 1000 Mega Ohms
Cable Length		5 Meters
Safe Overload of Rated Capacity		150%
Ultimate Overload of Rated Capacity		200%
Temp. Compensated Range		0-60°C
Temperature Effect on Output		< 0.005% FSO/ °C
Temperature Effect on Zero		< 0.005% FSO/ °C
Deflection		< 0.4 mm at FSO
Environmental Protection Class		IP 67



Electrical Termination



- +Input** Red
- +Output** Green
- Input** Black
- Output** White
- Shield**

*MOC

SS - Stainless Steel 17 - 4 PH

TS - Electroless Nickel Plated Tool Steel

Capacity	A	B	C	D	E	F	G	H	J	K	MOC*
50 - 1000 Kgf	50	30	13	25	5	42	150	M4 X 0.7	6	34	SS
1.5 - 7.5 Tf	90	35	23	30	5	70	150	M6 X 1.0	8	58	SS
10, 15, 20 Tf	115	45	32	40	5	90	150	M8 X 1.25	10	75	SS
30, 50 Tf	155	55	44	50	5	125	150	M12 X 1.5	14	103	SS
60, 75 Tf	205	67.5	65	60	7.5	165	430	M16 X 1.5	20	145	SS
100, 150 Tf	280	77.5	100	70	7.5	222	430	M20 X 1.5	25	180	TS
200 Tf	305	87.5	120	80	7.5	241	430	M24 X 2.0	25	203	TS
300 Tf	394	97.5	140	90	7.5	322	430	M24 X 2.0	25	270	TS
450 Tf	450	107.5	150	100	7.5	390	430	M24 X 2.0	25	330	TS

Note: All Dimensions are in mm

Specifications are subject to change without prior notice

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