

LGP 310 - PANCAKE LOAD CELL

Low profile "pancake" type cells are engineered to measure loads from 5 to 500,000 pounds. The tension/compression LGP 310 is designed with a threaded hole running through the center of the cell. The LGP 310 utilizes two stabilizing diaphragms, which are welded to the sensing member to reduce off-center and side-loading effects. A load button may be desirable when using in compression or a pull plate when using in tension. This model must be used on a flat, smooth surface to achieve rated specifications. This unit can be hermetically sealed for added durability. Options available with this unit include: 0-5 Vdc, 4-20 ma output, fatigue rating, high/low temperature compensation and ultra precision accuracy.

- **LOW PROFILE**
- **TENSION/COMPRESSION**
- **WIDE CAPACITY RANGE**
- **STAINLESS STEEL**
- **ECONOMICALLY PRICED**
- **0-5 VDC OR 4-20 MA OPTION OUTPUT**
- **5 LB TO 500,000 LB**

SPECIFICATIONS

LOAD RANGES:	5 lb to 500,000 lb
LINEARITY:	5 lb to 25 lb - $\pm 0.2\%$ FS 50 lb to 500,000 lb - $\pm 0.1\%$ FS
HYSTERESIS:	5 lb to 25 lb - $\pm 0.1\%$ FS 50 lb to 500,000 lb - $\pm 0.08\%$ FS
REPEATABILITY:	5 lb to 25 lb - $\pm 0.1\%$ 50 lb to 500,000 lb - $\pm 0.03\%$
MATERIAL:	5 lb to 200,000 - lb, 17-4 PH S.S. 300,000 lb to 500,000 lb Carbon Steel
TEMP. RANGE:	15° to 115° F
OUTPUT:	5 to 25 LB - 2mv/v 50 to 500,000 LB - 3mv/v
BRIDGE RESISTANCE:	350 ohm
EXCITATION:	10 Vdc
SAFE OVERLOAD:	50% Over Capacity
DEFLECTION:	.003" F.S.
CONNECTOR (Not Incl.):	5 lb to 5000 lb - PTO6A-10-6S 7500 lb to 500,000 lb - MS3106A-14S-6S



LGP 310 shown with optional MasterLink 3000 Wireless Transmitter. For more information:

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AVAILABLE RANGES	D"	H"	F"	G"		K"		T	A"	B"	C"
				Dia	B.C.	Dia	Thru				
5; 10; 25 lb	2.50	.80	6	2.000	.19	1/4-28UNF	.82	.75	1.25		
50; 100; 250; 500; 1000 lb	3.00	1.00	6	2.250	.28	3/8-24UNF	.82	.75	1.25		
2000; 3000; 4000; 5000 lb	3.50	1.00	6	2.625	.34	1/2-20UNF	.82	.75	1.25		
7500; 10,000; 15,000 lb	5.50	1.80	8	4.500	.40	1-14UNS	1.25	1.50	2.00		
20,000; 30,000; 50,000 lb	6.00	1.80	8	4.875	.53	1 1/2-12UN	1.25	1.50	2.00		
75,000; 100,000 lb	9.00	2.50	12	7.750	.66	2-12UN	1.25	1.50	2.00		
150,000; 200,000 lb	11.00	2.50	12	9.500	.78	2 1/2-12UN	1.25	1.50	2.00		
300,000; 400,000; 500,000 lb	14.00	4.25	12	11.750	1.03	3 1/2-8UN	1.25	1.50	xxx		

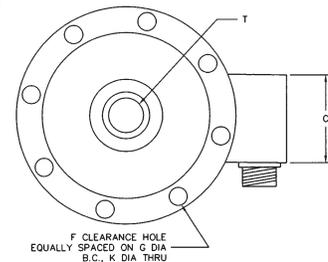
*Stocked ranges are in bold type.

xx "C" dimension varies on high ranges

Bolt holes (K) are counter-bored for ranges 15,000 lb and below

ALLOWABLE EXTRANEEOUS FORCE WITHOUT DAMAGE

	Side Load (Lbs)	Bending (lb/in)	Torque (lb/in) Extran. Forces	Total
25; 50; 100; 250; 500 lb	50%	40%	25%	100%
1000; 2000; 3000; 4000; 5000 lb	30%	25%	25%	100%
10,000; 15,000; 20,000; 30,000; 50,000 lb	20%	20%	15%	100%
100,000; 150,000; 200,000 lb	20%	20%	10%	100%
300,000; 400,000; 500,000	20%	20%	10%	100%



F CLEARANCE HOLE
EQUALLY SPACED ON G DIA
B.C., K DIA THRU

