

# "PANCAKE" STYLE, HIGH-ACCURACY, LOW-PROFILE LOAD CELLS FOR INDUSTRIAL WEIGHING APPLICATIONS

Models Available  
with Built-In  
Amplifiers!  
See Page F-47.

## LC402/LC412 Series

**LC402 (Cable Style)**  
**LC412 (Connector Style)**  
**Tension/Compression**  
**50 lb to 750,000 lb**  
**23 kg to 340,290 kg**

1 Newton = 0.2248 lb  
1 daNewton = 10 Newtons  
1 lb = 454 g  
1 t = 1000 kg = 2204 lb



Starts at  
**\$730**



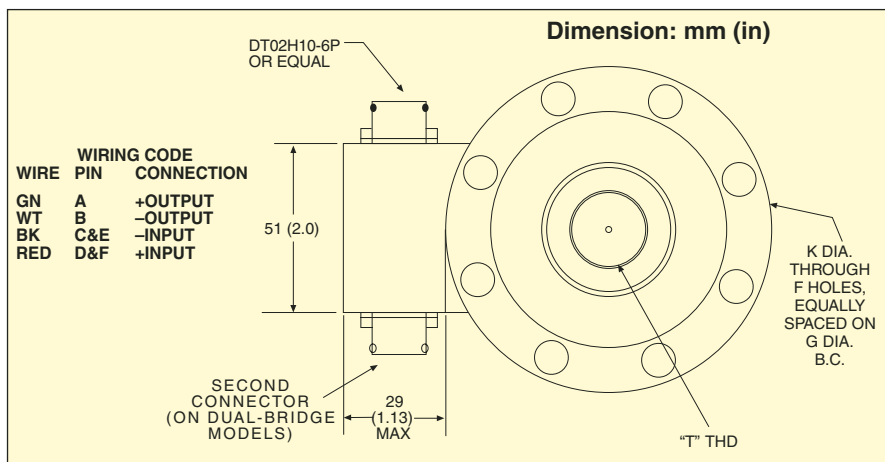
LC412-3K, \$730,  
shown actual size.



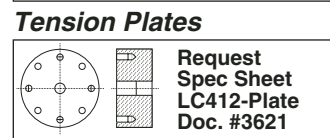
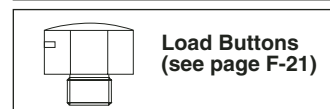
- ✓ FM Intrinsically Safe
- ✓ All Stainless Steel for Harsh Industrial Applications
- ✓ 0.25% Interchangeability for Multiple Load Cell Applications
- ✓ 5-Point Calibration Provided
- ✓ Easy-to-Use Twist-Lock Connection

### SPECIFICATIONS:

**Excitation:** 10 Vdc (15 Vdc max)  
**Output:** 3 mV/V ±0.25%  
**5-Point Calibration:**  
0%, 50%, 100%, 50%, 0%  
in compression. Units ordered with  
optional tension plate calibrated in tension.  
**Linearity:** 0.10% FSO  
**Hysteresis:** 0.10% FSO  
**Repeatability:** 0.05% FSO  
**Zero Balance:** ±1% FSO  
**Agency Approval:** FM Intrinsically Safe  
IS/1.II.III/1/CDEFG  
**Operating Temp Range:**  
**LC402:** -54 to 121°C (-65 to 250°F)  
**LC412:** -54 to 127°C (-65 to 260°F)  
**Compensated Temp Range:**  
16 to 71°C (60 to 160°F)  
**Protection Class:** IP65



**Thermal Effects:**  
**Zero:** 0.0076% FSO/°C  
**Span:** 0.0076% FSO/°C  
**Safe Overload:** 150% of capacity  
**Ultimate Overload:** 300% of capacity  
for ranges ≤400,000 lb; 200% of capacity  
for ranges >400,000 lb  
**Bridge Resistance:** 350 ±10 Ω  
**FS Deflection:** 0.001 to 0.003" typical  
**Construction:** 17-4 PH stainless steel  
**Electrical Connection:**  
**LC402:** 4.8 m (15') 4-conductor  
shielded PVC cable  
**LC412:** DT02H-10-6P connector  
(or equivalent)



LOAD CELLS  
**F**

# HIGH-ACCURACY, LOW-PROFILE LOAD CELLS

 **MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)						TENSION BASE PLATE (See Next Page for Details)	
CAPACITY		MODEL NO.		PRICE	COMPATIBLE METERS**	MODEL NO.	PRICE
lb	kg	CABLE	CONNECTOR				
50	23	LC402-50	LC412-50	\$730	DPiS, DP41-S, DP25B-S	LC412-TP225	\$110
100	45	LC402-100	LC412-100	730	DPiS, DP41-S, DP25B-S	LC412-TP225	110
250	114	LC402-250	LC412-250	730	DPiS, DP41-S, DP25B-S	LC412-TP225	110
500	227	LC402-500	LC412-500	730	DPiS, DP41-S, DP25B-S	LC412-TP288	110
1000	455	LC402-1K	LC412-1K	730	DPiS, DP41-S, DP25B-S	LC412-TP288	110
2000	909	LC402-2K	LC412-2K	730	DPiS, DP41-S, DP25B-S	LC412-TP288	110
3000	1361	LC402-3K	LC412-3K	730	DPiS, DP41-S, DP25B-S	LC412-TP288	110
5000	2269	LC402-5K	LC412-5K	730	DPiS, DP41-S, DP25B-S	LC412-TP325	110
10,000	4537	LC402-10K	LC412-10K	925	DPiS, DP41-S, DP25B-S	LC412-TP325	110
15,000	6806	LC402-15K	LC412-15K	995	DPiS, DP41-S, DP25B-S*	LC412-TP350	250
20,000	9074	LC402-20K	LC412-20K	995	DPiS, DP41-S, DP25B-S*	LC412-TP350	250
25,000	11,343	LC402-25K	LC412-25K	995	DPiS, DP41-S, DP25B-S*	LC412-TP350	250
50,000	22,686	LC402-50K	LC412-50K	1375	DPiS, DP41-S, DP25B-S*	LC412-TP563	425
75,000	34,029	LC402-75K	LC412-75K	†	DPiS, DP41-S, DP25B-S*	LC412-TP675	585
100,000	45,372	LC402-100K	LC412-100K	†	DPiS, DP41-S, DP25B-S*	LC412-TP800	760
200,000	90,744	LC402-200K	LC412-200K	†	DPiS, DP41-S, DP25B-S*	LC412-TP925	2200
300,000	136,116	LC402-300K	LC412-300K	†	DPiS, DP41-S, DP25B-S*	LC412-TP925-3	2200
400,000	181,488	LC402-400K	LC412-400K	†	DPiS, DP41-S, DP25B-S*	LC412-TP925-3	2200
500,000	226,860	LC402-500K	LC412-500K	†	DPiS, DP41-S, DP25B-S*	LC412-TP1025	2200
750,000	340,290	LC402-750K	LC412-750K	†	DPiS, DP41-S, DP25B-S*	LC412-TP1100	3200

Comes with 5-point NIST-traceable calibration.

† Special quote. \* 4-digit meter. \*\* See section D for compatible meters. DPiS suitable for one direction measurement only.

To order dual-bridge models, add suffix “-DUAL” to the model number; price: ≤5000 lb add \$250; >5000 lb add \$350.

Note: Models >300,000 lb are calibrated at 300,000 lb. Full scale calibration above 300,000 lb within ±1% available; add suffix “-FS” to the model number and consult Sales for price and delivery.

**Ordering Examples:** LC412-10K-DUAL, dual-bridge 10,000 lb capacity connector-style load cell, \$925 + 350 = \$1275. PT06F-10-6S, mating connector, 2 required (not included, see previous page), \$26.50 ea. LC412-TP325, optional tension plate (see previous page), \$110. LC412-20K-5V, 20,000 lb capacity connector-style load cell with 0 to 5 Vdc output, \$995 + 135 = \$1130. PT06F-10-6S, mating connector (not included, see previous page), \$26.50. LC412-TP350, optional tension plate (see previous page), \$250.

## POPULAR OPTIONS

<b>0 to 5 Vdc Output</b> (Ranges ≥ 3000 kg)	“5V”	Price \$175	<b>Extended Temperature Range:</b>	Price
<b>Overload Stops:</b>	“-OL”	Consult Factory	-45 to 93°C (-50 to 200°F)	“-TC1” \$50
<b>Dual Bridge:</b> ≤2000 kg >2000 kg	“-DUAL” “-DUAL”	250 350	-45 to 177°C (-50 to 350°F)	“-TC2” 225
			<b>Watertight Cable Exit:</b>	“-WTC” 125
			<b>Additional Cable Length:</b>	6.50/m

## ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
OP-17	\$15	Reference Book: Measure for Measure



## Dimensions: mm (in)

CAPACITY (lb)	DIA.	HEIGHT	F	G	K	T	WEIGHT lb (kg)
50 to 300	76 (3.00)	38 (1.50)	8	57 (2.25)	6.7 (0.266)	¾-24	1.1 (2.5)
500 to 3000	89 (3.50)	38 (1.50)	8	73 (2.875)	6.7 (0.266)	½-20	1.4 (3)
5000 to 10,000	95 (3.75)	38 (1.50)	8	83 (3.25)	6.7 (0.266)	¾-16	2.3 (5)
15K to 25K	102 (4.00)	51 (2.00)	8	89 (3.50)	10.3 (0.406)	1-14	3.4 (7.5)
30K to 50K	178 (7.00)	76 (3.00)	8	143 (5.625)	13.5 (0.531)	1½-12	15 (33)
75K	203 (8.00)	89 (3.50)	8	171 (6.750)	16.7 (0.656)	1¾-12	23 (50)
100K	241 (9.50)	102 (4.00)	8	203 (8.00)	19.8 (0.781)	2-12	37 (81)
150K to 200K	279 (11.0)	102 (4.00)	12	235 (9.25)	26 (1.030)	2½-12	46 (102)
300K to 400K	279 (11.0)	102 (4.00)	12	235 (9.25)	26 (1.030)	3-12	46 (102)
500K	305 (12.0)	102 (4.00)	12	280 (10.25)	29 (1.156)	3½-8	52 (115)
750K	330 (13.0)	114 (4.50)	12	279 (11.00)	33 (1.281)	4-8	61 (135)

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