

# HIGH ACCURACY LOW PROFILE LOAD CELLS FOR INDUSTRIAL WEIGHING APPLICATIONS

**LC402 = Cable Style**  
**LC412 = Connector Style**

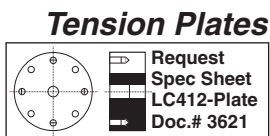
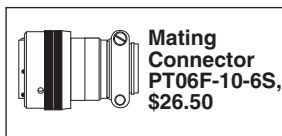
**Tension/Compression**  
**±50 lb to ±750,000 lb**  
**±200 N to ±3.3 MN**

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

LC402  
**\$730**  
≤ 5000 lb



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



**Model LC412-3K**  
**Shown Actual Size**  
**See next page for dimensions**

**Models Available with Built-In Amplifiers**

See page F-72

## 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/I.II.III/1/CDEFG  
**Operating Temp Range:** LC402: -54 to 107°C (-65 to 225°F) LC412: -54 to 127°C (-65 to 260°F)  
**Compensated Temp Range:** 16 to 71°C (60 to 160°F)

## Thermal Effects:

**Zero:** 0.0025% FSO/°F  
**Span:** 0.0025% FSO/°F  
**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 Ω ±10 Ω  
**FS Deflection:** .001 to .003 in. typical  
**Construction:** 17-4 PH Stainless Steel  
**Electrical Connection:** LC402: 15 ft (4.8 m) 4-conductor shielded PVC cable LC412: DT02H-10-6P connect (or equivalent)  
**Mating Connector:** PT06F-10-6S (not included) **\$26.50**

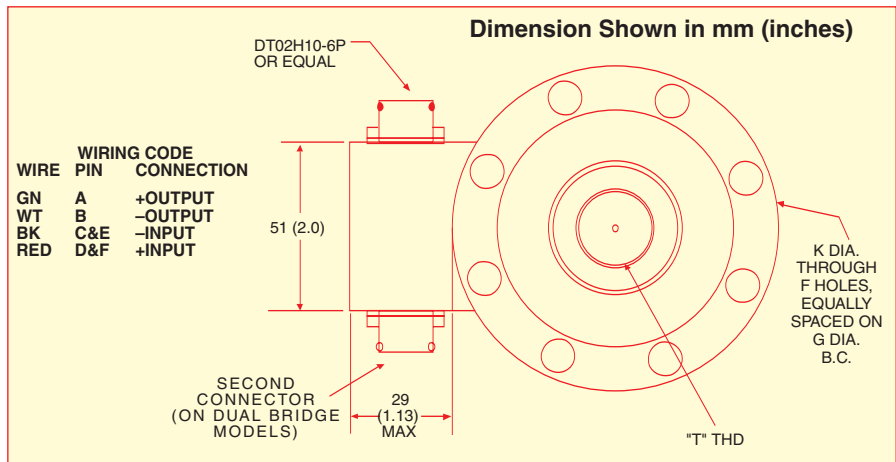
**Most Popular Models Highlighted**

To Order (Specify Model Number)					TENSION BASE PLATE (See next page for details)	
CAPACITY (lb)	CABLE MODEL NO.	CONNECTOR MODEL NO.	PRICE	COMPATIBLE METERS**	MODEL NO.	PRICE
±50	LC402-50	LC412-50	\$730	DP41-W, DP41-S, DP25-S	LC412-TP225	\$110
±100	LC402-100	LC412-100	730	DP41-W, DP41-S, DP25-S	LC412-TP225	110
±250	LC402-250	LC412-250	730	DP41-W, DP41-S, DP25-S	LC412-TP225	110
±500	LC402-500	LC412-500	730	DP41-W, DP41-S, DP25-S	LC412-TP288	110
±1000	LC402-1K	LC412-1K	730	DP41-W, DP41-S, DP25-S	LC412-TP288	110
±2000	LC402-2K	LC412-2K	730	DP41-W, DP41-S, DP25-S	LC412-TP288	110
±3000	LC402-3K	LC412-3K	730	DP41-W, DP41-S, DP25-S	LC412-TP288	110
±5000	LC402-5K	LC412-5K	730	DP41-W, DP41-S, DP25-S	LC412-TP325	110
±10,000	LC402-10K	LC412-10K	925	DP41-W, DP41-S, DP25-S	LC412-TP325	110
±15,000	LC402-15K	LC412-15K	995	DP41-W, DP41-S, DP25-S*	LC412-TP350	250
±20,000	LC402-20K	LC412-20K	995	DP41-W, DP41-S, DP25-S*	LC412-TP350	250
±25,000	LC402-25K	LC412-25K	995	DP41-W, DP41-S, DP25-S*	LC412-TP350	250
±50,000	LC402-50K	LC412-50K	1375	DP41-W, DP41-S, DP25-S*	LC412-TP563	425
±75,000	LC402-75K	LC412-75K	1580	DP41-W, DP41-S, DP25-S*	LC412-TP675	585
±100,000	LC402-100K	LC412-100K	2800	DP41-W, DP41-S, DP25-S*	LC412-TP800	760
±200,000	LC402-200K	LC412-200K	3600	DP41-W, DP41-S, DP25-S*	LC412-TP925	2200
±300,000	LC402-300K	LC412-300K	6200	DP41-W, DP41-S, DP25-S*	LC412-TP925-3	2200
±400,000	LC402-400K	LC412-400K	7200	DP41-W, DP41-S, DP25-S*	LC412-TP925-3	2200
±500,000	LC402-500K	LC412-500K	9000	DP41-W, DP41-S, DP25-S*	LC412-TP1025	2200
±750,000	LC402-750K	LC412-750K	11,000	DP41-W, DP41-S, DP25-S*	LC412-TP1100	3200

\*4-Digit Meter      \*\*See Section D For Compatible Meters      Metric Ranges Available – Consult Engineering  
 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 add \$1,500 to the order price.

**Ordering Examples:** 1) LC412-10K-DUAL is a dual bridge 10,000 lb capacity connector style load cell, \$925 + 350 = \$1275. Mating connector, two required (not included see previous page), PT06F-10-6S, \$26.50 ea. Optional Tension Plate (see next page), LC412-TP325, \$110.  
 2) LC412-400K-FS is a 400,000 lb capacity connector style load cell calibrated at 400,000 lb, \$7200 + \$1500 = \$8700.  
 Mating connector (not included, see previous page), PT06F-10-6S, \$26.50. Optional Tension Plate (see next page), LC412-TP925-3, \$2200.

- POPULAR OPTIONS**      Price
- 0-5 Vdc Output      “5V”      \$135
  - (ranges ≥ 3000 kg)
  - Overload Stops:      “-OL”      Consult Factory
  - Dual Bridge:
  - ≤2000 kg      “-DUAL”      250
  - >2000 kg      “-DUAL”      350
  - Extended Temperature Range:
  - between
  - 50 to 93°C (-50 to 200°F)      “-TC1”      50
  - 163°C (350°F)      “-TC2”      225
  - Watertight Cable Exit:      “-WTC”      125
  - Additional Cable Length:      6.50/m



Dimension Shown in Inches (mm)

CAPACITY (lb)	DIA.	HEIGHT	F	G	K	T	WEIGHT lb (kg)
50-300	3.00 (76)	1.50 (38)	8	2.25 (57)	.266 (6.7)	¾-24	2.5 (1.1)
500-3000	3.50 (89)	1.50 (38)	8	2.875 (73)	.266 (6.7)	½-20	3 (1.4)
5000-10000	3.75 (95)	1.50 (38)	8	3.25 (83)	.266 (6.7)	¾-16	5 (2.3)
15 K-25 K	4.00 (102)	2.00 (51)	8	3.50 (89)	.406 (10.3)	1-14	7.5 (3.4)
30 K-50 K	7.00 (178)	3.00 (76)	8	5.625 (143)	.531 (13.5)	1½-12	33 (15)
75 K	8.00 (203)	3.50 (89)	8	6.750 (171)	.656 (16.7)	1¾-12	50 (23)
100 K	9.50 (241)	4.00 (102)	8	8.00 (203)	.781 (19.8)	2-12	81 (37)
150 K-200 K	11.0 (279)	4.00 (102)	12	9.25 (235)	1.030 (26)	2½-12	102 (46)
300 K-400 K	11.0 (279)	4.00 (102)	12	9.25 (235)	1.030 (26)	3-12	102 (46)
500 K	12.0 (305)	4.00 (102)	12	10.25 (280)	1.156 (29)	3½-8	115 (52)
750 K	13.0 (330)	4.50 (114)	12	11.00 (279)	1.281 (33)	4-8	135 (61)