

# HIGH ACCURACY LOW PROFILE COMPRESSION LOAD CELL FOR INDUSTRIAL WEIGHING APPLICATIONS

**LC401 = Cable Style**  
**LC411 = Connector Style**

**Compression**  
**0-50 lb to 0-400,000 lb**  
**0-200 N to 0-1.8 MN**

LC401  
**\$595**  
Ranges to  
1000 lb



Mating Connector  
Required, see next  
page for details

Model LC411-20K  
Connector Style  
Shown Actual Size



**Built-in Amplifiers Available**  
See page next page

- ✓ **FM Intrinsically Safe Standard**
- ✓ **Dual Bridge Models Available**
- ✓ **Models Available with Built-In 5 V Amplifiers**
- ✓ **All Stainless Steel for Harsh Industrial Applications**
- ✓ **0.25% Interchangeable for Multiple Load Cell Applications**
- ✓ **5-Point Calibration Provided**

## SPECIFICATIONS:

### Excitation:

10 Vdc (15 Vdc max)

### Output:

3 mV/V  $\pm 0.25\%$

### 5-Point Calibration:

Calibrated at 0%, 50%, 100%, 50%, 0%  
Note: Models >300,000 lb are calibrated to 300,000 lb. Full scale calibration above 300,000 lb within  $\pm 1\%$  available.

### Linearity:

>3000 lb: 0.10% FSO;  
 $\leq 3000$  lb: 0.13% FSO

### Hysteresis:

>3000 lb: 0.10% FSO;  
 $\leq 3000$  lb: 0.12% FSO

### Repeatability:

0.05% FSO

**Zero Balance:**  $\pm 1\%$  FSO

**Dimensions:** see next page

## Most Popular Models Highlighted

### To Order (Specify Model Number)

CAPACITY (lb)	CABLE STYLE MODEL NO.	CONNECTOR MODEL NO.	PRICE	COMPATIBLE METERS**
0-50	LC401-50	LC411-50	\$595	DP41-W, DP41-S, DP25-S
0-100	LC401-100	LC411-100	595	DP41-W, DP41-S, DP25-S
0-250	LC401-250	LC411-250	595	DP41-W, DP41-S, DP25-S
0-500	LC401-500	LC411-500	595	DP41-W, DP41-S, DP25-S
0-1,000	LC401-1K	LC411-1K	595	DP41-W, DP41-S, DP25-S
0-1,500	LC401-1.5K	LC411-1.5K	635	DP41-W, DP41-S, DP25-S
0-2,000	LC401-2K	LC411-2K	635	DP41-W, DP41-S, DP25-S
0-3,000	LC401-3K	LC411-3K	635	DP41-W, DP41-S, DP25-S
0-5,000	LC401-5K	LC411-5K	635	DP41-W, DP41-S, DP25-S
0-10,000	LC401-10K	LC411-10K	790	DP41-W, DP41-S, DP25-S
0-15,000	LC401-15K	LC411-15K	790	DP41-W, DP41-S, DP25-S*
0-20,000	LC401-20K	LC411-20K	975	DP41-W, DP41-S, DP25-S*
0-25,000	LC401-25K	LC411-25K	975	DP41-W, DP41-S, DP25-S*
0-50,000	LC401-50K	LC411-50K	1150	DP41-W, DP41-S, DP25-S*
0-75,000	LC401-75K	LC411-75K	1150	DP41-W, DP41-S, DP25-S*
0-100,000	LC401-100K	LC411-100K	1390	DP41-W, DP41-S, DP25-S*
0-200,000	LC401-200K	LC411-200K	1850	DP41-W, DP41-S, DP25-S*
0-300,000	LC401-300K	LC411-300K	2200	DP41-W, DP41-S, DP25-S*
0-400,000	LC401-400K	LC411-400K	3100	DP41-W, DP41-S, DP25-S*

\*4-Digit meter

Metric Ranges Available – Consult Engineering

To order Dual Bridge Models, add suffix “-DUAL” to the model number;

Price:  $\leq 5000$  lb add \$250;  $> 5000$  lb add \$350

To order optional 0-5 V output, add suffix “-5V” to model number and add \$135 to price.

Note: Models  $> 300,000$  lb are calibrated at 300,000 lb. Full scale calibration above 300,000 lb within  $\pm 1\%$  available. Add Suffix “-FS” to the model number and add \$1,500 to the price.

### Ordering Examples:

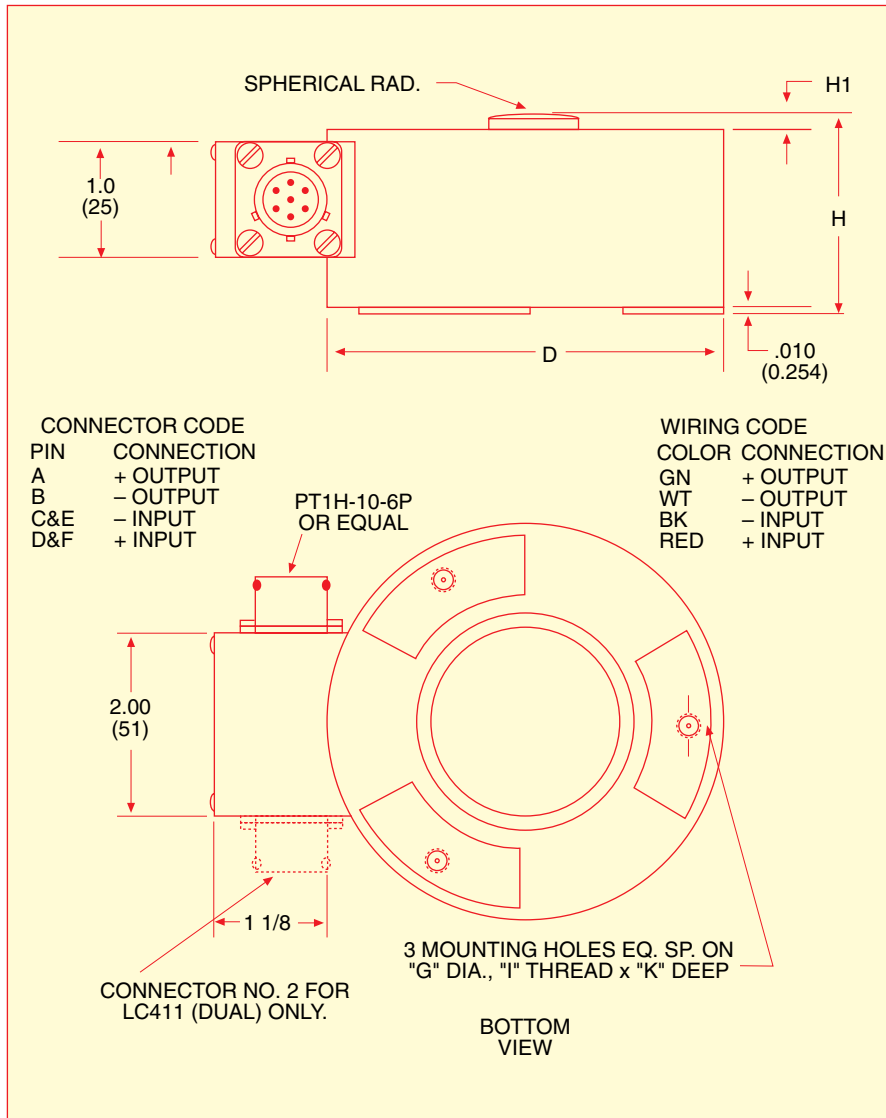
1) LC401-1K is a 1,000 lb capacity cable style load cell, \$595.

2) LC411-10K-DUAL is a 10,000 lb capacity connector style load cell with the dual bridge option,  $\$790 + 350 = \$1140$ .

Mating Connector (two required on dual models) not included, PT06F10-6S, \$26.50 ea.

\*\*See Section D For Compatible Meters

# LC401/LC411 LOW PROFILE COMPRESSION LOAD CELLS FOR INDUSTRIAL WEIGHING APPLICATIONS



**POPULAR OPTIONS**

<b>0-5 Vdc Output:</b> (ranges $\geq$ 15K lb.)	"-5V"	\$135
<b>Overload Stops:</b>	"-OL"	Consult Factory
<b>Dual Bridge:</b> $\leq$ 5000 lb	"-DUAL"	250
$>$ 5000 lb	"-DUAL"	350
<b>Extended Temperature Range:</b> between		
-50 to 93°C (-50 to 200°F)	"-TC1"	50
163°C (350°F)	"-TC2"	125
<b>Watertight Cable Exit:</b>	"-WTC"	125
<b>Additional Cable Length:</b>		2.00/ft



## SPECIFICATIONS (CONT):

### Agency Approval:

FM Intrinsically Safe  
IS/I.II.III/1/CDEFG Standard

### Operating Temp Range:

-54 to 107°C (-65 to 225°F)

### Compensated Temp Range:

16 to 71°C (60 to 160°F)

### Thermal Effects:

Zero: 0.0025% FSO/°F

Span: 0.0035% FSO/°F

**Safe Overload:** 150% FS Capacity

**Ultimate Overload:** 300% FS Capacity

**Bridge Resistance:** 350  $\Omega$   $\pm$  5  $\Omega$

**FS Deflection:** 0.001 to 0.003 in. typical

**Construction:** 17-4 pH Stainless Steel

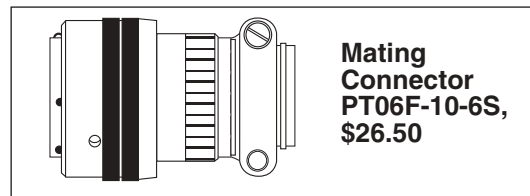
### Electrical Connection:

**LC401:** 15 ft (4.8 m) 4-Conductor shielded PVC Cable

**LC411:** PT1H-10-6P Twist lock connector (or equivalent)

### Mating Connector:

PT06F-10-6S (not included) \$26.50



Dimensions Shown in Inches (mm)

CAPACITY (lb)	D	H	H1	K	G	I
50-10,000	2.62 (66)	1.25 (32)	.09 (2.3)	.25 (6.4)	2.188 (56)	6-40 UNF-2
15,000-25,000	3.25 (83)	1.62 (41)	.09 (2.3)	.25 (6.4)	2.719 (69)	10-32 UNF-2
50,000-75,000	5.00 (127)	2.50 (64)	.12 (3.0)	.25 (6.4)	4.125 (105)	$\frac{5}{16}$ -24 UNF-2
100,000	6.00 (152)	3.50 (89)	.15 (3.8)	.37 (9.4)	4.875 (124)	$\frac{7}{16}$ -20 UNF-2
200,000	8.00 (203)	4.75 (121)	.18 (4.6)	.50 (13)	6.438 (164)	$\frac{5}{8}$ -18 UNF-2
300,000	9.00 (229)	4.75 (121)	.18 (4.6)	.63 (16)	7.500 (191)	$\frac{3}{4}$ -16 UNF-2
400,000	10.00 (254)	4.75 (121)	.25 (6.4)	.75 (19)	8.500 (216)	$\frac{7}{8}$ -14 UNF-2