

# HEAVY-DUTY CONSTANT MOMENT BEAM LOAD CELLS

## STANDARD AND METRIC MODELS

### LC602/LCM602 Series

Tension/Compression  
50 to 10,000 lb  
23 to 4537 kgf

Starts at  
**\$545**



- ✓ FM Approved Intrinsically Safe Standard
- ✓ 0.25% Interchangeability for Scale Applications
- ✓ High-Quality Stainless Steel Construction
- ✓ Environmentally Sealed IP65

The LC602/LCM602 Series comprises heavy-duty load cells designed for industrial weighing and scale applications. They are highly accurate, rugged load cells that are economically designed.

**STANDARD**  
LC602-5K, \$745,  
shown approximately  
50% of actual size.

See Section Y for a  
Selection of Scientific,  
Technical, and Reference  
Books Available from  
[omega.com](http://omega.com)

### SPECIFICATIONS

**Excitation:** 10 Vdc (15V max)

**Output:**

≤500 lb/250 kgf: 2 mV/V

>500 lb/250 kgf: 3 mV/V ±0.25 % FSO

**5-Point Calibration (in Compression):**

0%, 50%, 100%, 50%, 0%

**Linearity:** ±0.03% FSO

**Hysteresis:**

≤500 lb/250 kgf: ±0.05% FSO

>500 lb/250 kgf: ±0.03% FSO

**Repeatability:** ±0.02% FSO

**Zero Balance:** ±1.0% FSO

**Operating Temp Range:**

-34 to 82°C (-30 to 180°F)

**Compensated Temp Range:**

16 to 71°C (60 to 160°F)

**Thermal Effects:**

**Zero:** ±0.002% FSO/°F

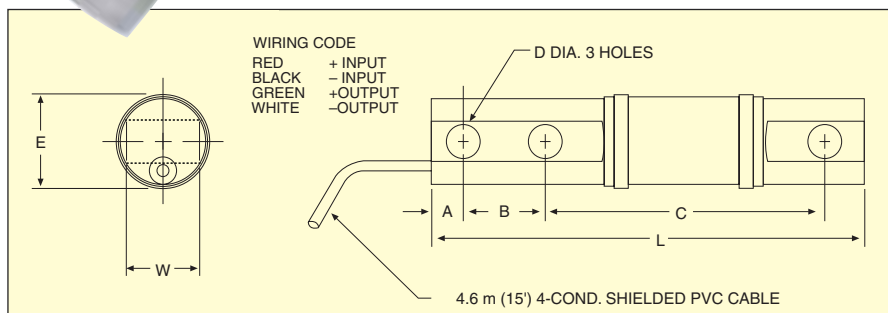
**Span:** ±0.001% FSO/°F

**Safe Overload:** 150% of capacity

**Ultimate Overload:** 300% of capacity

**Input Resistance:** 350 Ω minimum

**Protection Class:** IP65



**Dimensions: mm (in)**

CAPACITY	L	E	W	A	B	C	D
50 to 100 lb 25 to 50 kgf	152 (6.00)	35 (1.37)	27 (1.06)	9.3 (0.37)	22 (0.875)	108 (4.25)	7.9 (0.31)
250 to 2000 lb 250 to 750 kgf	169 (6.66)	35 (1.37)	27 (1.06)	13 (0.50)	29 (1.13)	108 (4.25)	13 (0.53)
2500 lb 1000 kgf	289 (11.38)	57 (2.25)	32 (1.25)	13 (0.50)	44 (1.75)	210 (8.25)	13 (0.53)
5000 to 10,000 lb 2500 to 5000 kgf	323 (12.75)	95 (3.75)	70 (2.75)	19 (0.75)	51 (2.00)	216 (8.50)	20 (0.78)

**Output Resistance:** 350 ±10 Ω

**Full Scale Deflection:**

0.010 to 0.015" typical

**Construction:** Stainless steel

**Agency Approval:** FM Intrinsically Safe  
IS/I.II.III/1/CDEFG

**Electrical:** 4.6 m (15') PVC insulated,  
4-conductor shielded color-coded cable

# HIGH PERFORMANCE METER

**MOST POPULAR MODELS HIGHLIGHTED!**



DP41-B, \$595, shown smaller than actual size.

See Page D-35 for Complete Details

Model DP41-B  
**\$595**

- ✓ Universal Inputs
- ✓ ±0.005% Rdg Accuracy
- ✓ 6-Digit Color-Changing LED Display
- ✓ Up to 166 Readings per Second
- ✓ Optional Ethernet or RS232/RS485

## To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
lb	kgf			
<b>STANDARD MODELS</b>				
50	23	LC602-50	\$545	DP41-B, DP41-S, DP25B-S
100	45	LC602-100	545	DP41-B, DP41-S, DP25B-S
250	114	LC602-250	545	DP41-B, DP41-S, DP25B-S
500	227	LC602-500	630	DP41-B, DP41-S, DP25B-S
1000	455	LC602-1K	630	DP41-B, DP41-S, DP25B-S
1500	682	LC602-1.5K	630	DP41-B, DP41-S, DP25B-S
2000	909	LC602-2K	630	DP41-B, DP41-S, DP25B-S
2500	1134	LC602-2.5K	630	DP41-B, DP41-S, DP25B-S
5000	2269	LC602-5K	745	DP41-B, DP41-S, DP25B-S
7500	3403	LC602-7.5	745	DP41-B, DP41-S, DP25B-S
10,000	4537	LC602-10K	745	DP41-B, DP41-S, DP25B-S
<b>METRIC MODELS</b>				
55	25	LCM602-25	\$545	DP41-B, DP41-S, DP25B-S
110	50	LCM602-50	545	DP41-B, DP41-S, DP25B-S
551	250	LCM602-250	630	DP41-B, DP41-S, DP25B-S
1102	500	LCM602-500	630	DP41-B, DP41-S, DP25B-S
1653	750	LCM602-750	630	DP41-B, DP41-S, DP25B-S
2205	1000	LCM602-1K	630	DP41-B, DP41-S, DP25B-S
5512	2500	LCM602-2.5K	745	DP41-B, DP41-S, DP25B-S
11,023	5000	LCM602-5K	745	DP41-B, DP41-S, DP25B-S

Comes complete with 5-point NIST-traceable calibration and 59 kΩ shunt data.

\* See section D for compatible meters.

Ordering Examples: LC602-250, 250 lb capacity load cell, \$545.

LCM602-250, 250 kgf capacity load cell, \$630.

For Complete Specifications Visit [omega.com/lcea](http://omega.com/lcea)

# ECONOMICAL BENDING BEAM LOAD CELLS

**LCEA Series**  
Bi-directional  
0-1 kgf to 0-5 kgf  
0-2.2 lb to 0-11 lb

All Models  
**\$165**

- ✓ Economical Design—Ideal for OEM Use
- ✓ All-Aluminum Construction
- ✓ 1, 2, and 5 kg Ranges

## SPECIFICATIONS

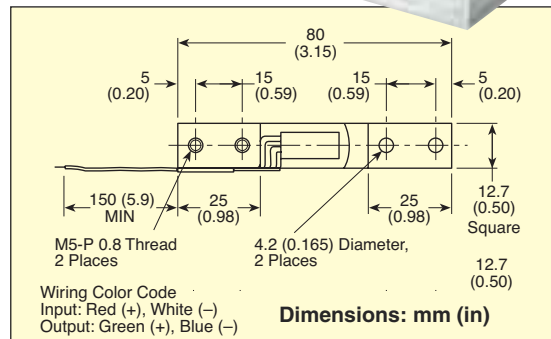
Output: 0.5 mV/V ±10% (end user must calibrate to eliminate 10%)

Excitation: 5 Vdc (8 Vdc max)

Non-Linearity: 0.5% FS

LCEA-2KG, \$165, shown actual size.

- Hysteresis: 0.3% FS
- Zero Balance: ±1 mV/V
- Bridge Resistance: 350 Ω
- Construction: Aluminum with acrylic resin protective coating
- Operating Temperature: -10 to 80°C (14 to 176°F)
- Compensated Temperature: 0 to 65°C (32 to 140°F)
- Temp Effect:
  - Zero: ±0.1% FS/°C
  - Span: ±0.1% rdg/°C
- Safe Overload: 200% FS
- Lead Wire: 6", 30 AWG, pigtail leads



**MOST POPULAR MODEL HIGHLIGHTED!**

## To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
kgf	lb			
1	2.2	LCEA-1KG	\$165	DP25B-S, DP41-S, DP87
2	4.4	LCEA-2KG	165	DP25B-S, DP41-S, DP87
5	11	LCEA-5KG	165	DP25B-S, DP41-S, DP87

\* See section D for compatible meters.

Ordering Example: LCEA-2KG, 2 kgf load cell, \$165.