

MINIATURE HIGH-CAPACITY "TOP HAT" LOAD CELL STANDARD AND METRIC MODELS

LC307/LCM307 Series Compression

0-250 lb to 0-100,000 lb
0-1 to 0-500 kN

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

Starts at
\$375



Small in size but not in performance, Series LC307/LCM307 top hat load cells are designed for applications with minimum space and high-capacity loads up to 100,000 lb. Rugged all stainless steel construction and high-performance strain gages ensure superior linearity and stability. Temperature compensation is done by a miniature circuit board in the load cell's cable. These cells are designed to be mounted on a smooth, flat surface.

SPECIFICATIONS

Excitation: 5 Vdc

Output: 1.5 mV/V nominal

Accuracy: 0.75% FS BFSL (includes linearity, hysteresis and repeatability)

Zero Balance: ±2% FSO

Operating Temp Range: -54 to 121°C (-65 to 250°F)

Compensated Temp Range: 16 to 71°C (60 to 160°F)

Thermal Effects:

Span: ±0.018% rdg/°C

Zero: ±0.018% FSO/°C

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω minimum

Full Scale Deflection: 0.001 to 0.003"

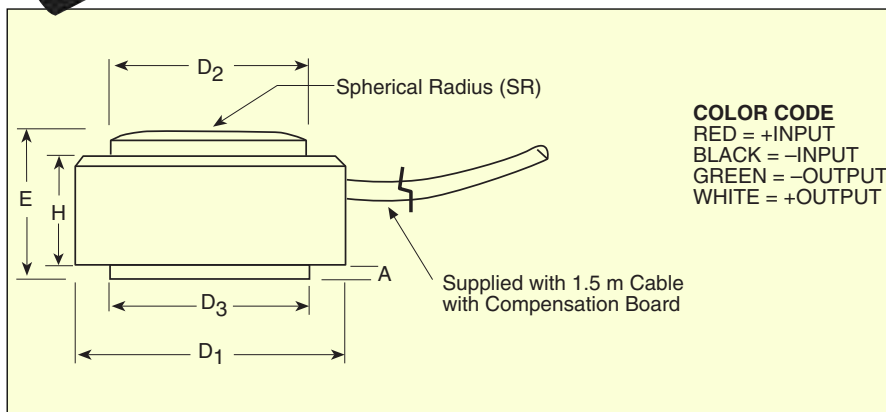
Electrical Connection:

1.5 m (5') 4-conductor cable with compensation board

Protection Class: IP54

LCM307-5KN, \$375, shown larger than actual size.

LCM307-5KN, \$375, shown actual size.



STANDARD Dimensions: mm (in)

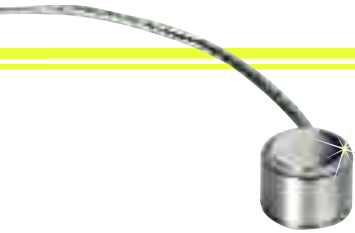
| CAPACITY (lb) | D1 | D2 | D3 | E | H |
|---------------|-------------|-------------|--------------|------------|---------------|
| 250 | 12.7 (0.50) | 6.9 (0.27) | 10.16 (0.40) | 9.7 (0.38) | 8.13 (0.320) |
| 500 | 12.7 (0.50) | 7.1 (0.28) | 10.16 (0.40) | 9.7 (0.38) | 8.13 (0.320) |
| 1000 | 12.7 (0.50) | 7.9 (0.31) | 10.16 (0.40) | 9.7 (0.38) | 8.13 (0.320) |
| 2000 | 12.7 (0.50) | 10 (0.41) | 10.16 (0.40) | 9.7 (0.38) | 8.13 (0.320) |
| 3000 | 12.7 (0.50) | 11 (0.45) | 10.16 (0.40) | 9.7 (0.38) | 8.13 (0.320) |
| 5000 | 16.0 (0.63) | 13.5 (0.53) | 10.16 (0.40) | 15 (0.60) | 13.54 (0.533) |
| 7500 | 22.2 (0.88) | 17 (0.67) | 10.16 (0.40) | 16 (0.63) | 13.97 (0.55) |
| 10,000 | 22.2 (0.88) | 19.3 (0.76) | 10.16 (0.40) | 16 (0.63) | 13.97 (0.55) |
| 50,000 | 44.5 (1.75) | 31.8 (1.25) | 10.16 (0.40) | 35 (1.38) | 31.34 (1.234) |
| 100,000 | 50.8 (2.00) | 38.1 (1.50) | 10.16 (0.40) | 41 (1.63) | 37.33 (1.470) |

METRIC Dimensions: mm (in)

| CAPACITY (kN) | D1 | D2 | D3 | E | H | A |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1 to 10 | 12.7 (0.500) | 10.16 (0.400) | 7.62 (0.300) | 9.53 (0.375) | 8.13 (0.320) | 0.254 (0.010) |
| 20 | 16.00 (0.630) | 13.46 (0.530) | 13.54 (0.533) | 12.70 (0.600) | 13.54 (0.533) | 0.381 (0.015) |
| 50 | 22.22 (0.875) | 19.30 (0.760) | 13.97 (0.550) | 16.00 (0.630) | 13.97 (0.550) | 0.381 (0.015) |
| 200 | 44.45 (1.750) | 31.75 (1.250) | 25.40 (1.000) | 35.05 (1.380) | 31.34 (1.234) | 0.381 (0.015) |
| 500 | 50.8 (2.000) | 38.10 (1.500) | 30.48 (1.200) | 41.40 (1.630) | 37.33 (1.470) | 0.762 (0.030) |

STANDARD MODELS **MOST POPULAR MODELS HIGHLIGHTED!**

| To Order (Specify Model Number) | | | | |
|---------------------------------|------|------------|-------|------------------------|
| CAPACITY | | MODEL NO. | PRICE | COMPATIBLE METERS** |
| lb | kN | | | |
| 250 | 1.11 | LC307-250 | \$375 | DPiS, DP41-S, DP25B-S |
| 500 | 2.22 | LC307-500 | 375 | DPiS, DP41-S, DP25B-S |
| 1000 | 4.45 | LC307-1K | 375 | DPiS, DP41-S, DP25B-S |
| 2000 | 8.90 | LC307-2K | 375 | DPiS, DP41-S, DP25B-S |
| 3000 | 13.3 | LC307-3K | 375 | DPiS, DP41-S, DP25B-S |
| 5000 | 22.2 | LC307-5K | 460 | DPiS, DP41-S, DP25B-S |
| 7500 | 33.4 | LC307-7.5K | 460 | DPiS, DP41-S, DP25B-S |
| 10,000 | 44.5 | LC307-10K | 460 | DPiS, DP41-S, DP25B-S |
| 50,000 | 222 | LC307-50K | 575 | DPiS, DP41-S, DP25B-S* |
| 100,000 | 445 | LC307-100K | 575 | DPiS, DP41-S, DP25B-S* |



LCM307-500, \$375, shown actual size.

Recommended Reference Book:
Measure for Measure,
OP-17, \$15.
See Section Y
For Additional Books.



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

* 4-digit meter.

** See section D for compatible meters.

Ordering Examples: LC307-5K, 5000 lb
capacity top hat load cell, \$460.

LC307-500, 500 lb capacity top hat
load cell, \$375.

LCM307-50KN, 50 kN capacity top hat
load cell, \$460.

LCM307-10KN, 10 kN capacity top hat
load cell, \$375.

METRIC MODELS

| CAPACITY | | MODEL NO. | PRICE | COMPATIBLE METERS** |
|----------|---------|--------------|-------|-----------------------|
| kN | lb | | | |
| 1 | 225 | LCM307-1KN | \$375 | DPiS, DP41-S, DP25B-S |
| 2 | 450 | LCM307-2KN | 375 | DPiS, DP41-S, DP25B-S |
| 5 | 1124 | LCM307-5KN | 375 | DPiS, DP41-S, DP25B-S |
| 10 | 2248 | LCM307-10KN | 375 | DPiS, DP41-S, DP25B-S |
| 20 | 4496 | LCM307-20KN | 375 | DPiS, DP41-S, DP25B-S |
| 50 | 11,240 | LCM307-50KN | 460 | DPiS, DP41-S, DP25B-S |
| 200 | 44,960 | LCM307-200KN | 460 | DPiS, DP41-S, DP25B-S |
| 500 | 112,400 | LCM307-500KN | 460 | DPiS, DP41-S, DP25B-S |

MAKE IT WIRELESS! ADD WIRELESS CAPABILITY TO YOUR PROCESS MEASUREMENT SYSTEM!



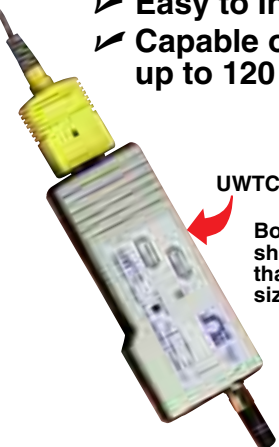
WRS232-USB wireless transmitter,
\$159, shown close to actual size.

Wireless Connections From
Your Sensor to Your
Instrumentation:

- ✓ Thermocouple, RTD, Infrared Temperature, Humidity, pH, as well as Process Voltage/Current
- ✓ Easy to Install and Use
- ✓ Capable of Distances up to 120 m (400')



**For Complete
Details, See
Wireless
Section W**



UWTC-1, \$125.

Both models
shown smaller
than actual
size.

UWTC-REC2,
\$235, available
with 4 to 20 mA, 0 to 5 Vdc,
0 to 10 Vdc and Type K
thermocouple output.



Laptop not included.

Wireless Communications
From Your Instrument to
a PC:

- ✓ Convert the RS232 Signal on Your Meter, Controller or PLC
- ✓ Works with any PC with a USB Port
- ✓ Easy to Install with Seamless Operation
- ✓ Capable of Distances up to 120 m (400')

LOAD CELLS
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