

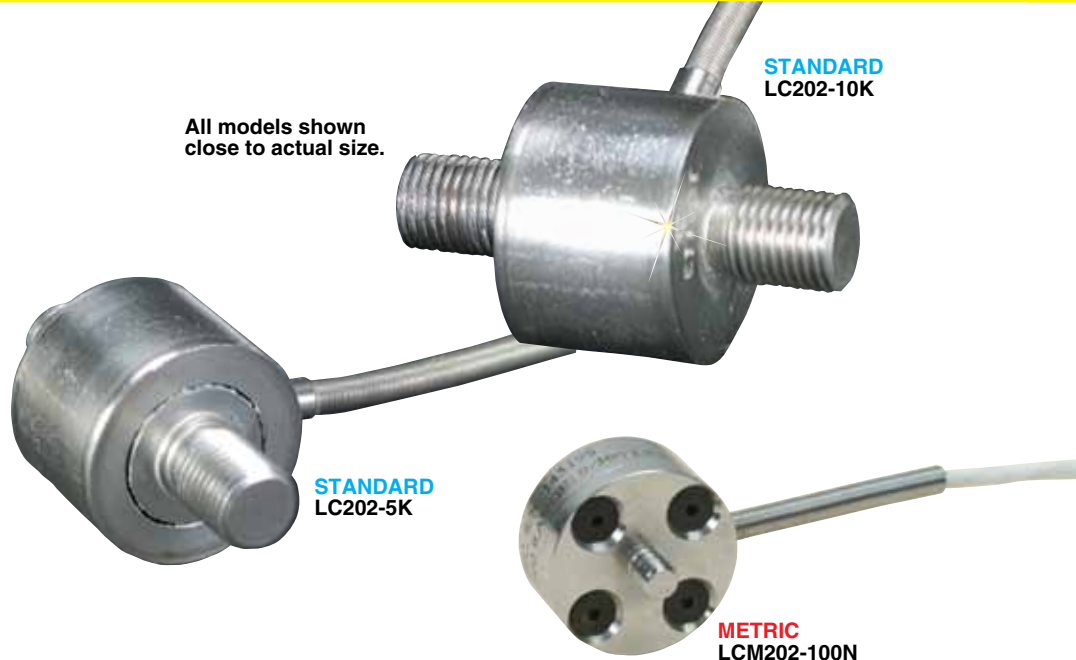
# MINIATURE UNIVERSAL LOAD CELLS

## STUD MOUNT STYLE, 25 mm (1") TO 35 mm (1.38") DIAMETER

### STANDARD AND METRIC MODELS

**Tension/Compression  
Calibrated in Tension**  
**0-50 lb to 0-10,000 lb**  
**0-22 kg to 0-4537 kg**  
**0-100 to 0-50,000 N**

## LC202/LCM202 Series

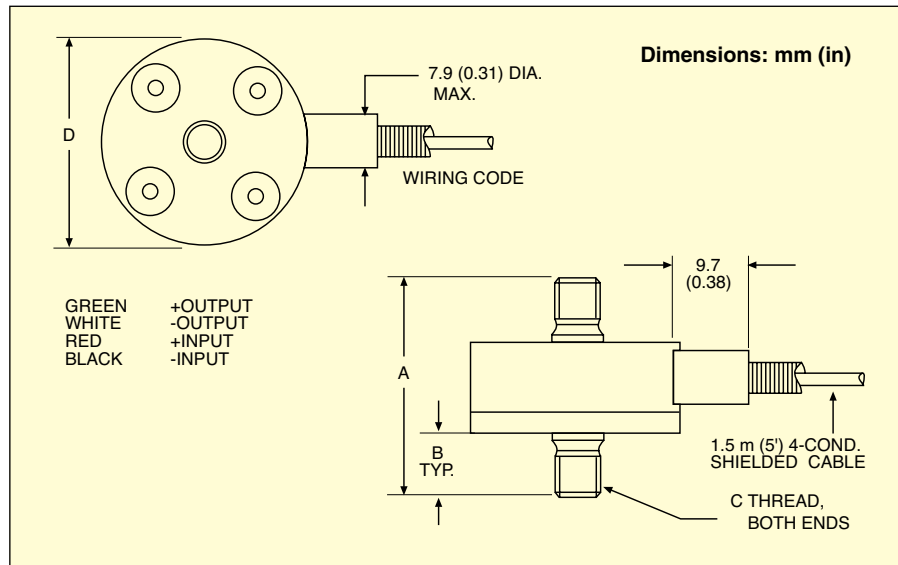


- Miniature Package for Test Stands and Difficult Locations
- Heavy-Duty Construction
- Dual Mounting Studs for Easy Installation
- 5-Point Calibration

OMEGA's LC202/LCM202 Series compact load cells have ranges of 50 to 10,000 lb and accuracy of 0.25%. The all stainless steel construction and rugged design ensure long life in industrial and commercial applications.

### SPECIFICATIONS

**Excitation:** 10 Vdc, 15 Vdc max  
**Output:** 2 mV/V nominal  
**Accuracy:** ±0.25% FSO linearity, hysteresis, repeatability combined  
**5-Point Calibration:**  
 0%, 50%, 100%, 50%, 0%  
**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:**  
**Zero:** 0.009% FSO/°C  
**Span:** 0.009% FSO/°C  
**Safe Overload:** 150% of capacity  
**Ultimate Overload:** 300% of capacity  
**Input Resistance:** 360 Ω minimum  
**Output Resistance:** 350 ±10 Ω  
**Construction:** Stainless steel  
**Electrical:** 1.5 m (5') 4-conductor cable  
**Protection Class:** IP65



### STANDARD Dimensions: mm (in)

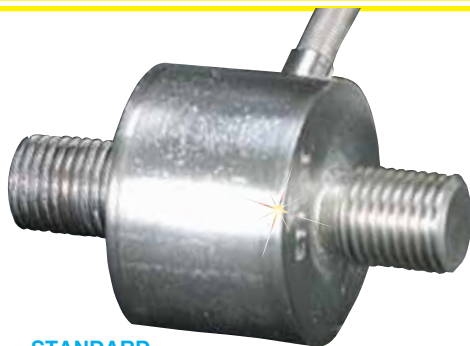
CAPACITY (lb)	A	B	C THREAD	D
50 to 500	25 (1.00)	6.3 (0.25)	10-32 UNF-2A	25 (1.00)
1000	33 (1.31)	9.7 (0.38)	¼-28 UNF-2A	25 (1.00)
2000 to 3000	44 (1.75)	13 (0.50)	⅜-24 UNF-2A	25 (1.00)
4000 to 5000	57 (2.23)	16 (0.63)	½-20 UNF-2A	32 (1.25)
7500 to 10,000	73 (2.89)	22 (0.88)	¾-16 UNF-2A	35 (1.38)

### METRIC Dimensions: mm (in)

CAPACITY (N)	A	B	C THREAD	D
100-2000	25 (1.00)	6.3 (0.25)	M5 x 0.8 - 6g	25 (1.00)
5000	33 (1.31)	9.7 (0.38)	M6 x 1.00 - 6g	25 (1.00)
10,000	44 (1.75)	13 (0.50)	M10 x 1.5 - 6g	25 (1.00)
20,000	57 (2.23)	16 (0.63)	M12 x 1.75 - 6g	32 (1.25)
50,000	73 (2.89)	22 (0.88)	M20 x 1.5 - 6g	35 (1.38)

**STANDARD MODELS**

<b>To Order</b>			
<b>CAPACITY</b>		<b>MODEL NO.</b>	<b>COMPATIBLE METERS</b>
<b>lb</b>	<b>N</b>		
50	222	<b>LC202-50</b>	DPiS, DP41-S, DP25B-S
100	445	<b>LC202-100</b>	DPiS, DP41-S, DP25B-S
300	1334	<b>LC202-300</b>	DPiS, DP41-S, DP25B-S
500	2224	<b>LC202-500</b>	DPiS, DP41-S, DP25B-S
1000	4448	<b>LC202-1K</b>	DPiS, DP41-S, DP25B-S
2000	8896	<b>LC202-2K</b>	DPiS, DP41-S, DP25B-S
3000	13,344	<b>LC202-3K</b>	DPiS, DP41-S, DP25B-S
5000	22,240	<b>LC202-5K</b>	DPiS, DP41-S, DP25B-S
7500	33,360	<b>LC202-7.5K</b>	DPiS, DP41-S, DP25B-S
10,000	44,480	<b>LC202-10K</b>	DPiS, DP41-S, DP25B-S



**STANDARD**  
LC202-10K, shown close to actual size.

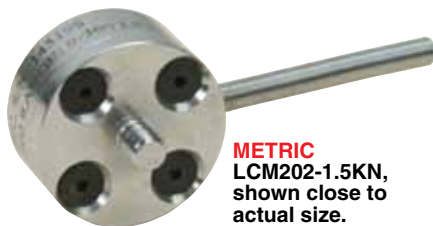
Comes complete with 5-point NIST-traceable calibration.  
DPiS meter suitable for one direction measurement only.  
**Ordering Examples:** LC202-100, 100 lb capacity miniature universal load cell.  
LC202-1K, 1000 lb capacity miniature universal load cell.

**METRIC MODELS**

<b>CAPACITY</b>		<b>MODEL NO.</b>	<b>COMPATIBLE METERS</b>
<b>N</b>	<b>lb</b>		
100	22	<b>LCM202-100N</b>	DPiS, DP41-S, DP25B-S
200	45	<b>LCM202-200N</b>	DPiS, DP41-S, DP25B-S
300	67	<b>LCM202-300N</b>	DPiS, DP41-S, DP25B-S
500	112	<b>LCM202-500N</b>	DPiS, DP41-S, DP25B-S
1000	225	<b>LCM202-1KN</b>	DPiS, DP41-S, DP25B-S
1500	337	<b>LCM202-1.5KN</b>	DPiS, DP41-S, DP25B-S
2000	450	<b>LCM202-2KN</b>	DPiS, DP41-S, DP25B-S
5000	1124	<b>LCM202-5KN</b>	DPiS, DP41-S, DP25B-S
10,000	2248	<b>LCM202-10KN</b>	DPiS, DP41-S, DP25B-S
20,000	4496	<b>LCM202-20KN</b>	DPiS, DP41-S, DP25B-S
50,000	11,241	<b>LCM202-50KN</b>	DPiS, DP41-S, DP25B-S



**METRIC**  
LCM202-20KN, shown close to actual size.



**METRIC**  
LCM202-1.5KN, shown close to actual size.

Comes complete with 5-point NIST-traceable calibration.  
**Ordering Examples:** LCM202-100N, 100 N capacity miniature universal load cell.  
LCM202-1KN, 1000 N capacity miniature universal load cell.

**STRAIN GAGE/BRIDGE  
TRANSDUCER-SIGNAL  
CONDITIONERS**



- ✓ Unipolar/Bipolar  
30 mV to 100 mV
- ✓ 13-Bit Resolution
- ✓ 10 Vdc Excitation
- ✓ 0.2% FS Accuracy
- ✓ 1800 Vdc Isolation

The iDRN-ST and iDRX-ST signal conditioners provide highly accurate, stable, isolated measurement for strain gage transducers such as load cells, torque transducers, non-amplified pressure transducers, and other bridge based transducers. Both models can accept signals from 30 to 100 mV full scale and provide 10 Vdc reference voltage which may be used for transducer excitation.



LOAD CELLS **F**