

# HIGH-ACCURACY MINIATURE UNIVERSAL LOAD CELLS 51 mm (2") DIAMETER, DUAL STUD MOUNT STYLE STANDARD AND METRIC MODELS

## LC203/LCM203 Series LC213/LCM213 Series

Tension/Compression  
Calibrated in Tension  
0-25 lb to 0-10,000 lb  
0-11 kgf to 0-4537 kgf



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

All Models  
**\$575**

- ✓ FM Intrinsically Safe
- ✓ 0.25% Interchangeability for Scale Applications
- ✓ Hermetically Sealed
- ✓ Miniature Package for Test Stands and Difficult Locations
- ✓ Heavy-Duty Construction
- ✓ 5-Point Calibration

OMEGA's LC203/LCM203 Series comprises high-accuracy, miniature, low-profile industrial load cells that come with a stud at each end for easy in-line mounting. The tough, corrosion-resistant steel construction and high-accuracy strain gages plus FM Intrinsically Safe rating make them suitable for most industrial weighing applications.

### SPECIFICATIONS

**Excitation:** 10 Vdc, 15 Vdc max

**Output:** 2 mV/V  $\pm 0.25\%$

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

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

**Linearity:**  $\pm 0.15\%$  FSO

**Hysteresis:**  $\pm 0.1\%$  FSO

**Repeatability:**  $\pm 0.05\%$  FSO

**Zero Balance:**  $\pm 2\%$  FSO

**Deflection:** 0.025 to 0.075 mm (0.001 to 0.003")

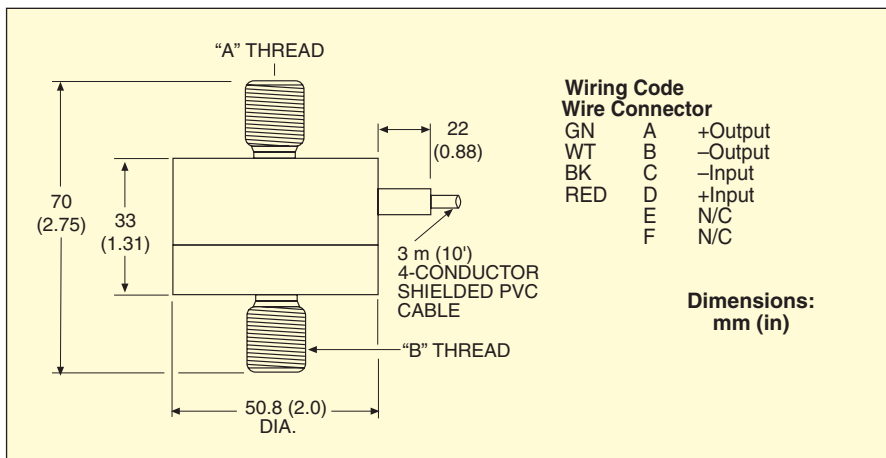
**Agency Approvals:**

FM IS/I.II.III/1/CDEFG (standard)



**STANDARD**  
LC203-100, \$575,  
shown actual size.

**METRIC**  
LCM213-2KN, \$575,  
shown actual size.



Dimensions: mm (in)

MODEL	A THREAD	B THREAD
LC203	1/2-20 UNF	1/2-20 UNF
LCM203	M12 x 1.75	M12 x 1.75
Thread Length	19 (0.75)	17 (0.69)

**Protection Class:** IP65

**Operating Temp Range:**  
-46 to 107°C (-50 to 225°F)

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

**Thermal Effects:**

Zero: 0.006% FSO/°C

Span: 0.009% FSO/°C

**Safe Overload:** 150% of capacity

**Ultimate Overload:** 300% of capacity

**Input Resistance:** 360  $\Omega$  minimum

**Output Resistance:** 350  $\pm 10 \Omega$

**Construction:** Stainless steel

**Electrical:** 3 m (10') 4-conductor  
PVC shielded cable

**LC213/LCM213 Mating Connector:**  
PT06F10-6S, (sold separately)

# HIGH-ACCURACY MINIATURE UNIVERSAL LOAD CELLS

## 51 mm (2") DIAMETER, DUAL STUD MOUNT STYLE

**STANDARD**  
LC203-100,  
\$575.

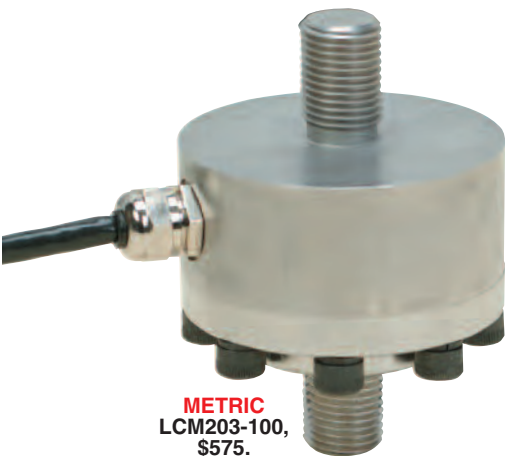


**METRIC**  
LCM213-2KN,  
\$575.



All models shown slightly smaller than actual size.

**METRIC**  
LCM203-100,  
\$575.



### STANDARD MODELS MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)					
CAPACITY		MODEL NO.		PRICE	COMPATIBLE METERS*
lb	kgf	CABLE	CONNECTOR		
25	11	LC203-25	LC213-25	\$575	DPiS, DP41-S, DP25B-S
50	23	LC203-50	LC213-50	575	DPiS, DP41-S, DP25B-S
100	45	LC203-100	LC213-100	575	DPiS, DP41-S, DP25B-S
200	91	LC203-200	LC213-200	575	DPiS, DP41-S, DP25B-S
300	136	LC203-300	LC213-300	575	DPiS, DP41-S, DP25B-S
500	227	LC203-500	LC213-500	575	DPiS, DP41-S, DP25B-S
1000	455	LC203-1K	LC213-1K	575	DPiS, DP41-S, DP25B-S
2000	909	LC203-2K	LC213-2K	575	DPiS, DP41-S, DP25B-S
2500	1134	LC203-2.5K	LC213-2.5K	575	DPiS, DP41-S, DP25B-S
5000	2269	LC203-5K	LC213-5K	575	DPiS, DP41-S, DP25B-S
8000	3630	LC203-8K	LC213-8K	575	DPiS, DP41-S, DP25B-S
10,000	4537	LC203-10K	LC213-10K	575	DPiS, DP41-S, DP25B-S

### ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
REC-012F	\$45.00	Rod end for LC203/LC213
PT06F10-6S	26.50	Mating connector for LC213 series load cells

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

\* See section D for compatible meters. DPiS meter suitable for one direction measurement only.

Ordering Examples: LC203-500, 500 lb capacity cable style, dual stud mount load cell, \$575.

LC213-2K, 2000 lb capacity connector style, dual stud mount load cell, \$575. PT06F10-6S, mating connector, \$26.50.

### METRIC MODELS MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)					
CAPACITY		MODEL NO.		PRICE	COMPATIBLE METERS**
N	lb	CABLE	CONNECTOR		
100	22	LCM203-100N	LCM213-100N	\$575	DPiS, DP41-S, DP25B-S
200	45	LCM203-200N	LCM213-200N	575	DPiS, DP41-S, DP25B-S
500	112	LCM203-500N	LCM213-500N	575	DPiS, DP41-S, DP25B-S
1000	225	LCM203-1KN	LCM213-1KN	575	DPiS, DP41-S, DP25B-S
2000	450	LCM203-2KN	LCM213-2KN	575	DPiS, DP41-S, DP25B-S
5000	1124	LCM203-5KN	LCM213-5KN	575	DPiS, DP41-S, DP25B-S
10,000	2248	LCM203-10KN	LCM213-10KN	575	DPiS, DP41-S, DP25B-S
20,000	4496	LCM203-20KN	LCM213-20KN	575	DPiS, DP41-S, DP25B-S*
50,000	11,241	LCM203-50KN	LCM213-50KN	575	DPiS, DP41-S, DP25B-S*

### ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
MREC-M12F	\$45.00	Rod end for LCM203/LCM213
PT06F10-6S	26.50	Mating connector for LCM213 series load cells

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

\* 4-digit meters. \*\* See section D for compatible meters.

Ordering Examples: LCM203-500N, 500 Newton capacity dual stud-mount load cell, \$575. MREC-M12F, accessory rod end, \$35 ea.



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters