

# HIGH-ACCURACY MINIATURE UNIVERSAL LOAD CELLS SURFACE-MOUNT STYLE, 51 mm DIAMETER

## LCM204/LCM214 Series

**Tension/Compression  
Calibrated in Tension  
LCM204 (Cable Style)  
LCM214 (Connector Style)  
0-100 N to 0-50,000 N**

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

All Models  
**£328**



- ✓ 0.25% Interchangeability for Scale Applications
- ✓ Miniature Pack for Test Stands and Difficult Locations
- ✓ Designed to be Mounted on a Flat Surface
- ✓ 5-Point Calibration

OMEGA's LCM204/LCM214 Series load cells are designed to be surface mounted with the load applied through the mounting stud. The high linearity (0.15%) and all stainless steel construction make them ideal for industrial and commercial weighing and for force measuring applications.

### SPECIFICATIONS

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

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

**5-Point Calibration (in Compression):**  
0%, 50%, 100%, 50%, 0%

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

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

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

**Agency Approvals:**  
FM IS/I.II.III/1/CDEFG (standard)

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

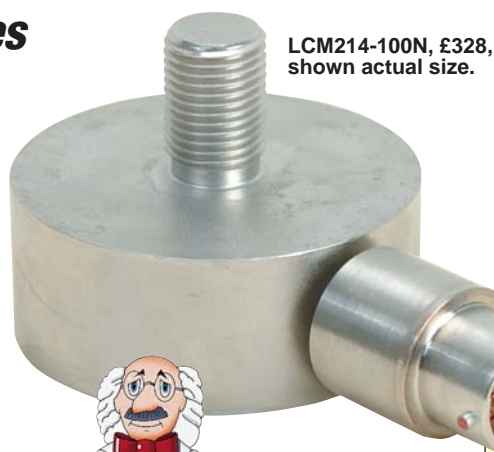
**Operating Temp Range:** -46 to 107°C

**Compensated Temp Range:**  
16 to 71°C

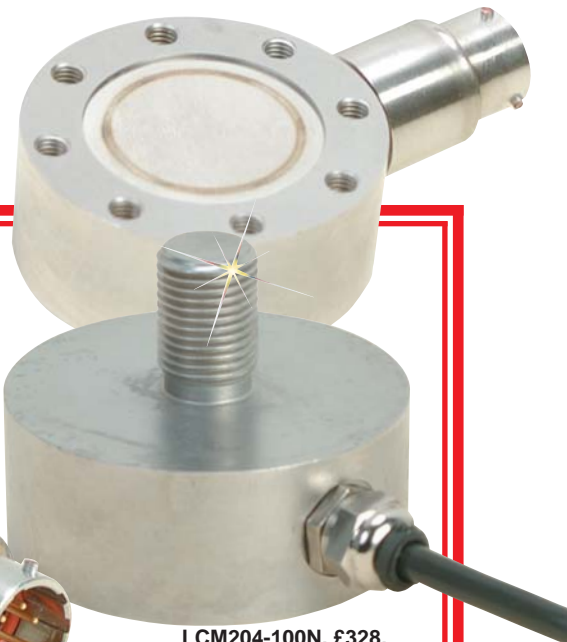
**Thermal Effects:**

Zero: 0.0045% FSO/°C

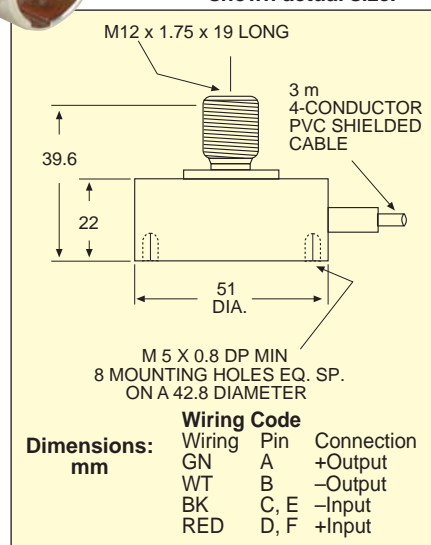
Span: 0.009% FSO/°C



LCM214-100N, £328,  
shown actual size.



LCM204-100N, £328,  
shown actual size.



**Safe Overload:** 150% of capacity  
**Ultimate Overload:** 300% of capacity  
**Input Resistance:** 360 minimum  
**Output Resistance:** 350  $\pm 10$   
**Construction:** Stainless steel  
**Electrical Model LCM204:** 3 m 4-conductor screened cable  
**Connector Model LCM214:**  
Body Connector: PTIH-10-6P  
Mating Connector: PT06F10-6S, £17.75

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

CAPACITY		MODEL NO.		PRICE	COMPATIBLE METERS**
N	lb	CABLE	CONNECTOR		
100	22	LCM204-100N	LCM214-100N	£328	DPiS, DP41-B, DP25B-S
200	45	LCM204-200N	LCM214-200N	328	DPiS, DP41-B, DP25B-S
500	112	LCM204-500N	LCM214-500N	328	DPiS, DP41-B, DP25B-S
1000	225	LCM204-1KN	LCM214-1KN	328	DPiS, DP41-B, DP25B-S
2000	450	LCM204-2KN	LCM214-2KN	328	DPiS, DP41-B, DP25B-S
5000	1124	LCM204-5KN	LCM214-5KN	328	DPiS, DP41-B, DP25B-S
10,000	2248	LCM204-10KN	LCM214-10KN	328	DPiS, DP41-B, DP25B-S
20,000	4496	LCM204-20KN	LCM214-20KN	328	DPiS, DP41-B, DP25B-S*
50,000	11,241	LCM204-50KN	LCM214-50KN	328	DPiS, DP41-B, DP25B-S*

Comes with 5-point traceable calibration.

\* 4-digit meter. \*\* See page 291 for compatible meters. DPiS meter suitable for one direction measurement only.

**Ordering Examples:** LCM204-100N, 100 N capacity surface-mount load cell, £328.  
LCM204-5KN, 5000 N capacity surface-mount load cell, £328.

### ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
MREC-M12F	£23.50	Rod end
OP-17	10.00	Reference Book: Measure for Measure

# omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

**www.omega.co.uk**



## 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)

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)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, 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, Thermocouple Wire, RTD Probes

### • 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, Pressure Transmitters, Strain Gauges, 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