

# CANISTER-STYLE COMPRESSION LOAD CELLS HEAVY-DUTY DESIGN

## LCM1001/LCM1011 Series

LCM1001 (Cable Style)

LCM1011 (Connector Style)

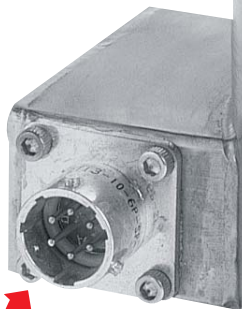
Compression

0-250 kgf to 0-10,000 kgf

All Models  
**£600**



Models Available with Built-In Amplifiers! See Next Page



PT06F10-6S, £17.75, mating connector sold separately.

- ✓ 0.25% Interchangeability for Multiple Load Cell Applications
- ✓ 5-Point Calibration (Standard)
- ✓ Canister Design Ideal for Axial Compression Applications
- ✓ Heavy-Duty, Environmentally Sealed Case for Harsh Environments
- ✓ Dual-Bridge Models Available



LCM1011-5K, connector style, £600, shown smaller than actual size.

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

Canister-Style Compression Load Cells						Accessories			
CAPACITY kgf	lbf	CABLE STYLE	CONNECTOR STYLE	PRICE	COMPAT. METERS*	BASE PLATE** MODEL NO.	PRICE	TOP PLATE** MODEL NO.	PRICE
250	551	LCM1001-250	LCM1011-250	£600	DP41-B, DP41-S	LCM1000-BP4	£32	LCM1000-TP4	£32
500	1102	LCM1001-500	LCM1011-500	600	DP41-B, DP41-S	LCM1000-BP4	32	LCM1000-TP4	32
1000	2205	LCM1001-1K	LCM1011-1K	600	DP41-B, DP41-S	LCM1000-BP4	32	LCM1000-TP4	32
2000	4409	LCM1001-2K	LCM1011-2K	600	DP41-B, DP41-S	LCM1000-BP4	32	LCM1000-TP4	32
5000	11,023	LCM1001-5K	LCM1011-5K	600	DP41-B, DP41-S	LCM1000-BP4	32	LCM1000-TP4	32
10,000	22,046	LCM1001-10K	LCM1011-10K	600	DP41-B, DP41-S	LCM1000-BP4	32	LCM1000-TP4	32

Comes with 5-point traceable calibration.

\*\* Base plates and top plates are carbon steel. To order stainless steel, and for complete specifications, see the following pages.

To order a dual bridge load cell, add suffix "-DUAL" to model number (£168 additional cost for 2000 kgf, £235 for >2000 kgf).

Ordering Examples: LCM1001-10K, 10 ton capacity cable-style load cell, LCM1000-BP4, accompanying base plate, LCM1000-TP4, accompanying top plate, £600 + 32 + 32 = £664. LCM1011-500-Dual, dual-bridge 500 kgf capacity connector-style load cell, £600 + 168 = £768. LCM1000-BP4, accompanying base plate, £32. LCM1000-TP4, accompanying top plate, £32. PT06F10-6S, mating connector (not included, 2 required with dual bridge), £17.75 ea.

\* See page 291 for compatible meters.

#### ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
ME-1804	£84	Reference Book: Mechanical Design Handbook

PRESSURE, STRAIN AND FORCE

# HEAVY-DUTY CANISTER LOAD CELLS



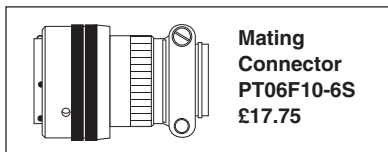
LCM1011-5K, connector style, £600, shown smaller than actual size.

## SPECIFICATIONS

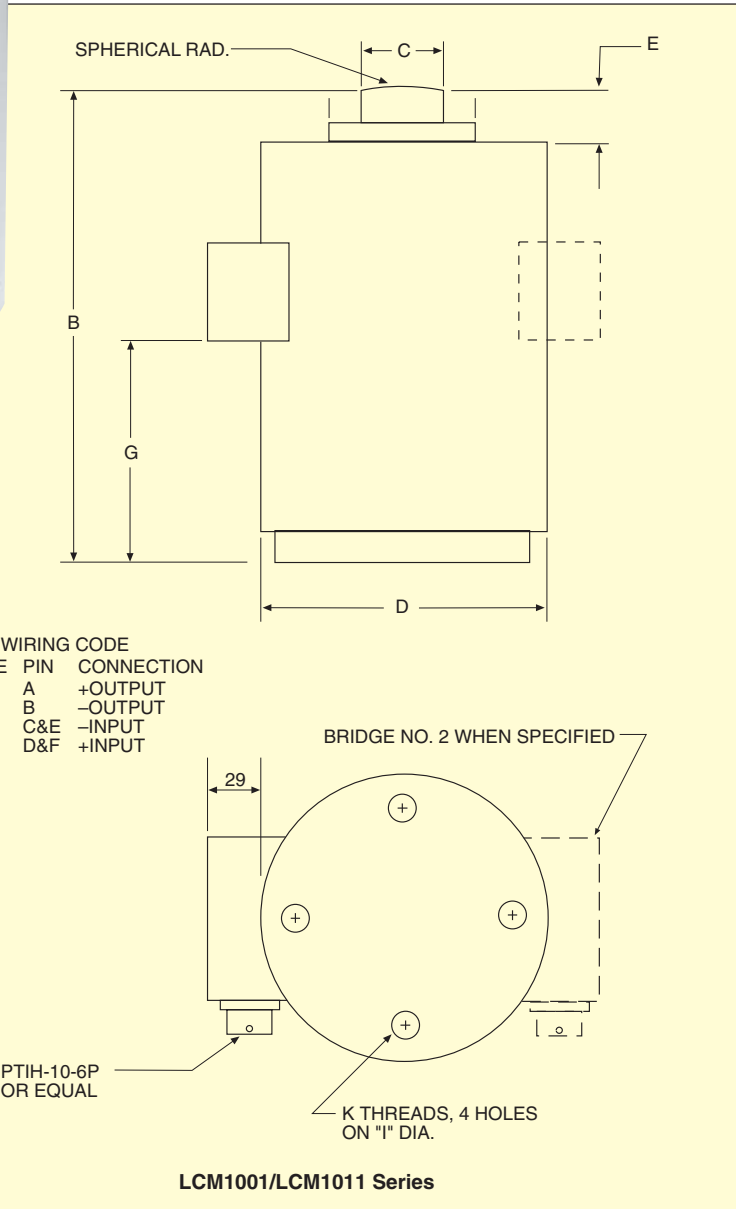
- Excitation:** 10 Vdc (15 Vdc max)
- 5-Point Calibration (in Compression):** 0%, 50%, 100%, 50%, 0%
- Linearity:**  $\pm 0.05\%$  FSO
- Hysteresis:**  $\pm 0.03\%$  FSO
- Repeatability:**  $\pm 0.02\%$  FSO
- Output:** 2 mV/V  $\pm 0.25\%$
- Agency Approvals:** FM/CSA
- Intrinsically Safe:** IS/I.II.III/1/CDEFG (must be specified at time of order)
- Zero Balance:**  $\pm 1\%$  FS
- Operating Temp Range:** -46 to 100°C
- Compensated Temp Range:** 16 to 71°C
- Thermal Effects:**
  - Zero:**  $\pm 0.002\%$  FS/°C
  - Span:**  $\pm 0.002\%$  rdg/°C
- Safe Overload:** 150% of rated capacity
- Ultimate Overload:** 300% of rated capacity
- Input Resistance:** 350  $\pm 10 \Omega$
- Output Resistance:** 350  $\pm 10 \Omega$
- FS Deflection:** 0.178 to 0.305 mm typical
- Construction:** 17-4 PH stainless steel

### Electrical:

- LCM1001:** 4.6 m 4-conductor screened cable
- LCM1011:** PTIH-10-6P (or equiv.)
- Mating Connector (LCM1011):** PT06F10-6S, £17.75 (not included)
- Protection Class:** IP67



Mating Connector  
PT06F10-6S  
£17.75



WIRING CODE

WIRE	PIN	CONNECTION
GN	A	+OUTPUT
WT	B	-OUTPUT
BK	C&E	-INPUT
RED	D&F	+INPUT

## POPULAR OPTIONS

Option	Price	Extended Temperature Range:	Price
0 to 5 Vdc Output	"5V" £117.00	-45 to 93°C	"-TC1" £33.50
Overload Stops:	"-OL" Consult Sales	-45 to 177°C	"-TC2" 151.00
Dual Bridge:	"-DUAL" 168.00	Watertight Cable Exit:	"-WTC" 84.00
2000 kg	"-DUAL" 235.00	Additional Cable Length:	6.50/m
>2000 kg			

### Dimensions: mm

CAPACITY (kgf)	B	C	D	E	G	I $\pm 0.005$	K (THREAD)	WEIGHT kg
250-1500	116	32	89	6	32	60	M10 x 1.5 x $\frac{3}{8}$ DP	2.7
2500-5000	15	132	89	19	46	60	M10 x 1.5 x $\frac{3}{8}$ DP	4.5
10,000	191	32	114	19	77	60	M10 x 1.5 x $\frac{3}{8}$ DP	9

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