

Load Washers for Measuring Bolt Compressional Forces

LCMWD Series Compression 0-1000 N to 0-200 kN

1 Newton = 0.2248 lb
1 kgf = 10 Newtons
1 kg = 2.204 lb
1 t = 1000 kg = 2204 lb

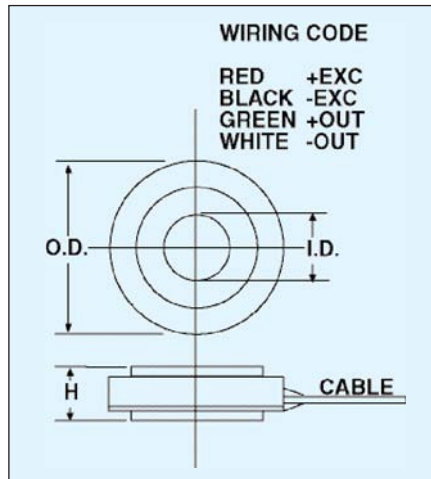
Starts at
£252

LCMWD-2KN, £252,
with spherical washers
and load button (included),
shown actual size.

LCMWD-200KN,
£359, with spherical
washers (included),
shown actual size.



- ✓ Ranges to 200 kN
- ✓ Compact Design
- ✓ Spherical Washers Included
- ✓ Load Buttons Included
- ✓ Use of Spherical Washers Recommended When Used with Bolts
- ✓ Use of Load Button Recommended When Used as Compression Load Cell



Dimensions: mm

CAPACITY (N)	ID	OD	H
≤50,000	10.2	25	9.0
100,000	12.7	30	10
200,000	19.3	44	13

Caution

This unit is not field serviceable. Modifying and/or tampering will forfeit the warranty and may be dangerous. Use appropriate protective equipment and/or garments when testing or installing, including safety glasses.

SPECIFICATIONS

Excitation: 10 Vdc (15 V max)

Output: 2 mV/V ± 20%

Accuracy (Linearity, Hysteresis and Repeatability Combined):

≤50 kN: ±0.5% BFSL
>50 kN: ±0.75% BFSL

Zero Balance: ±4.0% FSO

Operating Temp Range:
-40 to 127°C

Compensated Temp Range:
16 to 71°C

Thermal Effects:

Zero: ±0.018% FSO/°C
Span: ±0.018% FSO/°C

Safe Overload: 120% of capacity

Ultimate Overload: 200% of capacity

Bridge Resistance: 350 Ω min
<200 kN; 700 Ω = 200 kN

Full Scale Deflection: 0.025 mm typical

Construction: Stainless steel

Electrical: 1.5 m insulated
shielded cable

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)								
CAPACITY		MODEL	METERS*	COMPATIBLE MODEL	SPHERICAL WASHERS**			
N	lb	NO.			PRICE	ID	PRICE	
1000		225	LCMWD-1KN	£252	DPiS, DP41-S, DP25B-S	SPW-2	8.7	£7
2000		450	LCMWD-2KN	252	DPiS, DP41-S, DP25B-S	SPW-2	8.7	7
5000		1124	LCMWD-5KN	252	DPiS, DP41-S, DP25B-S	SPW-2	8.7	7
10,000		2248	LCMWD-10KN	252	DPiS, DP41-S, DP25B-S	SPW-2	8.7	7
20,000		4496	LCMWD-20KN	252	DPiS, DP41-S, DP25B-S	SPW-2	8.7	7
50,000		11,240	LCMWD-50KN	299	DPiS, DP41-S, DP25B-S	SPW-2	8.7	7
100,000		22,481	LCMWD-100KN	332	DPiS, DP41-S, DP25B-S	SPW-3	10	7
200,000		44,962	LCMWD-200KN	359	DPiS [†] , DP41-S, DP25B-S	SPW-5	17	10

Comes with 5-point traceable calibration.

* See page 80 for compatible meters. † 4-digit meter.

** One set of spherical washers and one set of load buttons supplied with each load cell.

Ordering Examples: LCMWD-10KN, 10 kN capacity load washer supplied with 2 load buttons and a set of spherical washers, £252. LCMWD-200KN, 200 kN capacity load washer supplied with 2 load buttons and a set of spherical washers, £359.



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