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LOW-PROFILE PANCAKE STYLE LOAD CELLS STANDARD AND METRIC MODELS

OMEGA®

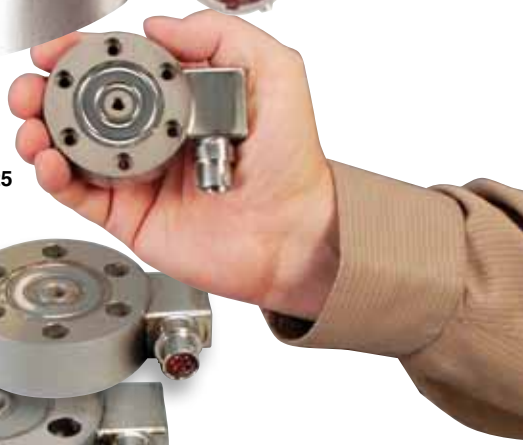
Tension/Compression
Calibrated in Tension
5 to 500,000 lb Capacities
2.5 kgf to 10,000 kgf Capacities

LCHD/LCMHD Series

NIST RoHS
Standard

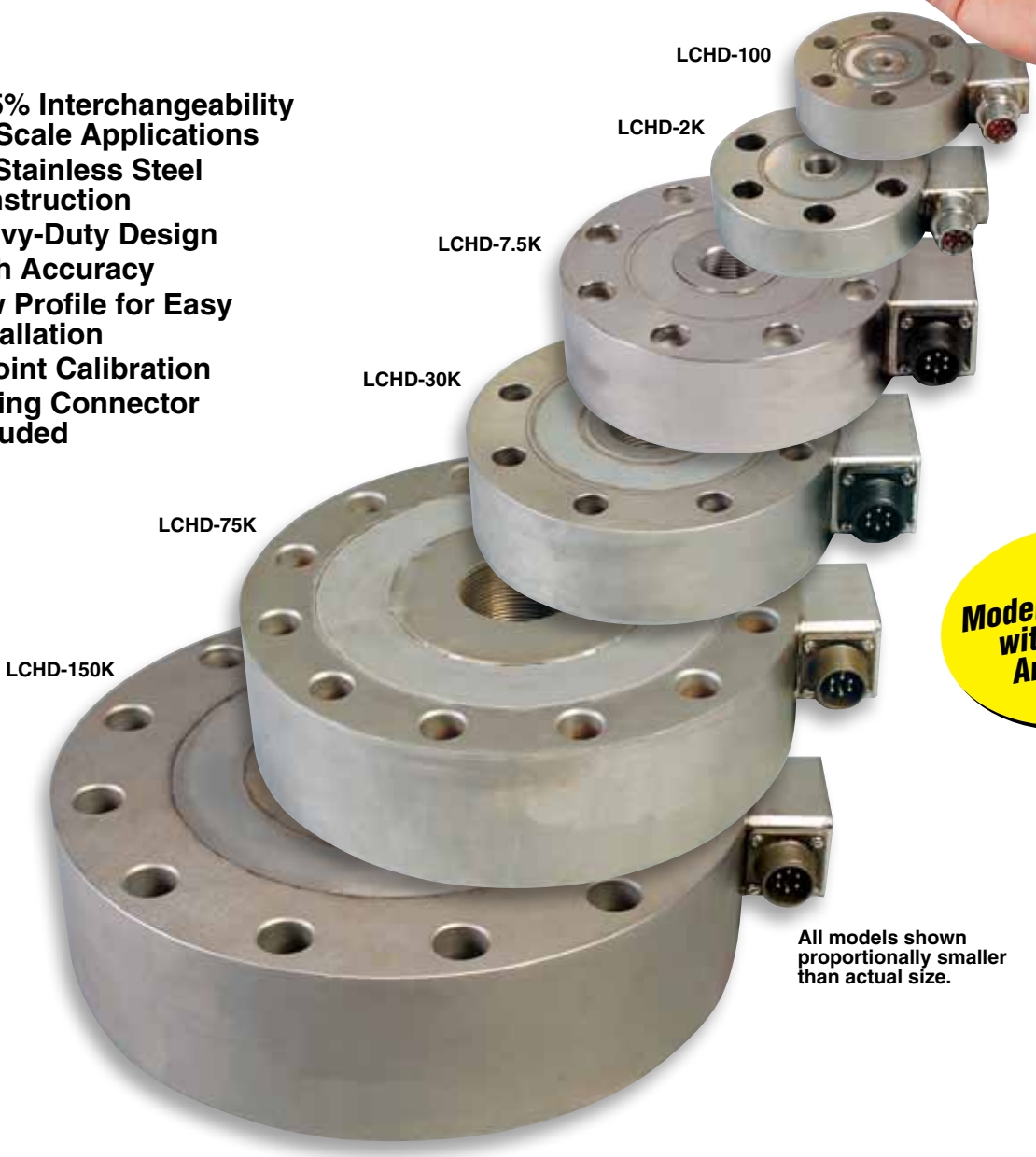


LCHD-5K, shown actual size. See next page for dimensions.



LCHD-25

- 0.25% Interchangeability for Scale Applications
- All Stainless Steel Construction
- Heavy-Duty Design
- High Accuracy
- Low Profile for Easy Installation
- 5-Point Calibration
- Mating Connector Included



Models Available with Built-In Amplifiers!

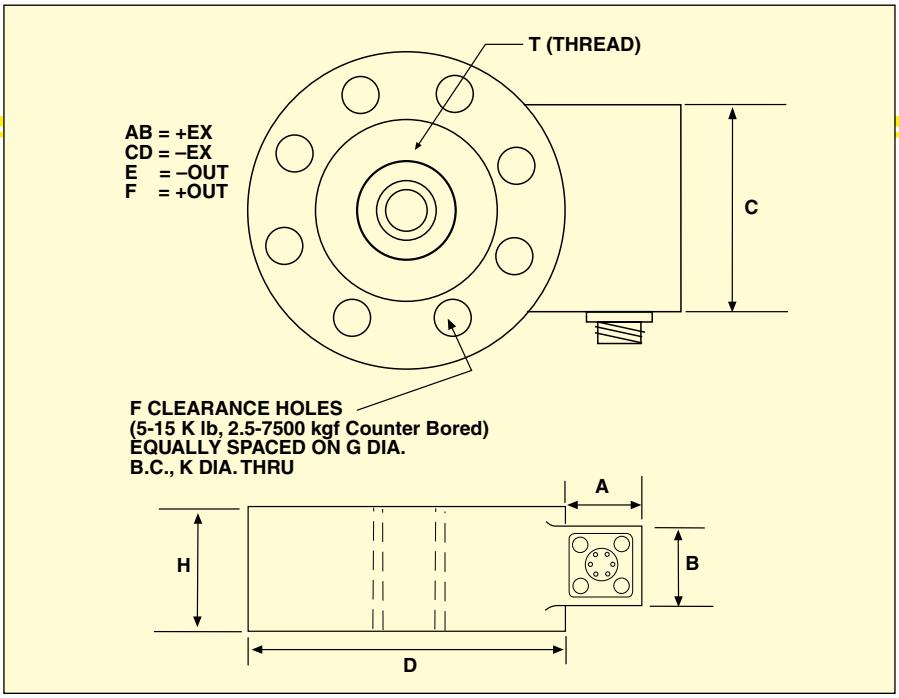
All models shown proportionally smaller than actual size.

SPECIFICATIONS

Excitation: 10 Vdc (15 V max)
Output (FSO):
≤**25 lb/10 kgf:** 2 mV/V ±0.25%
≥**50 lb/20 kgf:** 3 mV/V ±0.25%
5-Point Calibration (in Tension):
0%, 50%, 100%, 50%, 0%
Linearity:
≤**25 lb/10 kgf:** ±0.20% FSO
≥**50 lb/20 kgf:** ±0.10% FSO
Hysteresis:
≤**25 lb/10 kgf:** ±0.10% FSO
≥**50 lb/20 kgf:** ±0.08% FSO
Repeatability:
≤**25 lb/10 kgf:** ±0.1% FSO
≥**50 lb/20 kgf:** ±0.03% FSO
Zero Balance: ±1% of 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: 0.0036% FSO/°C
Span: 0.0036% FSO/°C
Safe Overload: 150% of capacity
Ultimate Overload: 300% of capacity
Input Resistance: 350 ±10 Ω
Output Resistance: 350 ±10 Ω
FS Deflection:
0.025 to 0.076 mm
(0.001 to 0.003") typical
Construction: 17-4 PH stainless steel
Electrical:
≤**5000 lb/2000 kgf:** DT02H-10-6P
>**5000 lb/2500 kgf:** MS3102E-14S-6P
(or equiv.)
Mating Connector (Included):
≤**5000 lb/2000 kgf:** PT06F-10-6S
>**5000 lb/2500 kgf:** MS3102E-14S-6S
(or equiv.)

LCHD-TP263, optional tension plate for 2k to 5k LCHD load cells, shown smaller than actual size.





Dimensions: mm (inch)

CAPACITY	D	H	F	G	K	T	A	B	C
STANDARD MODELS									
5 to 25 lb	64 (2.5)	20 (0.80)	6	51 (2.0)	4.6 (0.18)	¼-28 UNF	24 (0.94)	19 (0.75)	32 (1.25)
50 to 1K lb	76 (3.0)	25 (1.0)	6	57 (2.25)	7.1 (0.28)	⅜-24 UNF	24 (0.94)	19 (0.75)	32 (1.25)
2K to 5K lb	89 (3.5)	25 (1.0)	6	67 (2.63)	8.6 (0.34)	½-20 UNF	24 (0.94)	19 (0.75)	32 (1.25)
7.5K to 15K lb	140 (5.5)	46 (1.8)	8	114 (4.5)	10 (0.40)	1-14 UNS	32 (1.25)	38 (1.5)	51 (2.0)
20K to 50K lb	152 (6.0)	46 (1.8)	8	124 (4.88)	13 (0.53)	1½-12 UNF	32 (1.25)	38 (1.5)	51 (2.0)
75K to 100K lb	229 (9.0)	64 (2.5)	12	197 (7.75)	17 (0.66)	2-12 UN	32 (1.25)	38 (1.5)	51 (2.0)
150K to 200K lb	279 (11)	76 (3.0)	12	241 (9.5)	20 (0.78)	2½-12 UN	32 (1.25)	38 (1.5)	51 (2.0)
300K to 500K lb	356 (14)	108 (4.25)	12	298 (11.75)	25 (1.0)	3½-8 UN	32 (1.25)	38 (1.5)	51 (2.0)
METRIC MODELS									
2.5 to 10 kgf	64 (2.5)	20 (0.80)	6	51 (2.0)	4.6 (0.18)	M6 x 1.00	24 (0.94)	19 (0.75)	32 (1.25)
25 to 500 kgf	76 (3.0)	25 (1.0)	6	57 (2.25)	7.1 (0.28)	M10 x 1.5	24 (0.94)	19 (0.75)	32 (1.25)
1000 to 2500 kgf	89 (3.5)	25 (1.0)	6	67 (2.63)	8.6 (0.34)	M12 x 1.75	24 (0.94)	19 (0.75)	32 (1.25)
5000 to 7500 kgf	140 (5.5)	46 (1.8)	8	114 (4.5)	10 (0.40)	M24 x 2.0	32 (1.25)	38 (1.5)	51 (2.0)
10000 kgf	152 (6.0)	46 (1.8)	8	124 (4.88)	13 (0.53)	M36 x 2.0	32 (1.25)	38 (1.5)	51 (2.0)

To Order

TENSION PLATES

MODEL NO.	DESCRIPTION
LCHD-TP200	Tension plate, 5 to 25 lb ranges
LCHD-TP225	Tension plate, 50 to 1000 lb ranges
LCHD-TP263	Tension plate, 2000 to 5000 lb ranges
LCHD-TP450	Tension plate, 7500 to 15,000 lb ranges
LCHD-TP488	Tension plate, 20,000 to 50,000 lb ranges
LCHD-TP775	Tension plate, 75,000 to 100,000 lb ranges

LOW-PROFILE PANCAKE STYLE LOAD CELLS



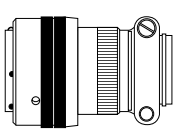
To Order

CAPACITY		MODEL NO.	COMPATIBLE METERS
		STANDARD MODELS	
5 lb	2.3 kgf	**LCHD-5**	DPiS, DP41-S, DP25B-S
10 lb	4.5 kgf	**LCHD-10**	DPiS, DP41-S, DP25B-S
25 lb	11 kgf	**LCHD-25**	DPiS, DP41-S, DP25B-S
50 lb	23 kgf	**LCHD-50**	DPiS, DP41-S, DP25B-S
100 lb	45 kgf	**LCHD-100**	DPiS, DP41-S, DP25B-S
250 lb	114 kgf	**LCHD-250**	DPiS, DP41-S, DP25B-S
500 lb	227 kgf	**LCHD-500**	DPiS, DP41-S, DP25B-S
1K lb	455 kgf	**LCHD-1K**	DPiS, DP41-S, DP25B-S
2K lb	909 kgf	**LCHD-2K**	DPiS, DP41-S, DP25B-S
3K lb	1361 kgf	**LCHD-3K**	DPiS, DP41-S, DP25B-S
4K lb	1815 kgf	**LCHD-4K**	DPiS, DP41-S, DP25B-S
5K lb	2269 kgf	**LCHD-5K**	DPiS, DP41-S, DP25B-S
7.5K lb	3403 kgf	**LCHD-7.5K**	DPiS, DP41-S, DP25B-S
10K lb	4537 kgf	**LCHD-10K**	DPiS, DP41-S, DP25B-S
15K lb	6806 kgf	**LCHD-15K**	DPiS, DP41-S, DP25B-S*
20K lb	9074 kgf	**LCHD-20K**	DPiS, DP41-S, DP25B-S*
30K lb	13,612 kgf	**LCHD-30K**	DPiS, DP41-S, DP25B-S*
50K lb	22,686 kgf	**LCHD-50K**	DPiS, DP41-S, DP25B-S*
75K lb	34,029 kgf	**LCHD-75K**	DPiS, DP41-S, DP25B-S*
100K lb	45,372 kgf	**LCHD-100K**	DPiS, DP41-S, DP25B-S*
150K lb	68,058 kgf	**LCHD-150K**	DPiS, DP41-S, DP25B-S*
200K lb	90,744 kgf	**LCHD-200K**	DPiS, DP41-S, DP25B-S*
300K lb	136,116 kgf	**LCHD-300K**	DPiS, DP41-S, DP25B-S*
400K lb	181,488 kgf	**LCHD-400K**	DPiS, DP41-S, DP25B-S*
500K lb	226,860 kgf	**LCHD-500K**	DPiS, DP41-S, DP25B-S*
		METRIC MODELS	
5.5 lb	2.5 kgf	**LCMHD-2.5**	DPiS, DP41-S, DP25B-S
11 lb	5 kgf	**LCMHD-5**	DPiS, DP41-S, DP25B-S
22 lb	10 kgf	**LCMHD-10**	DPiS, DP41-S, DP25B-S
55 lb	25 kgf	**LCMHD-25**	DPiS, DP41-S, DP25B-S
110 lb	50 kgf	**LCMHD-50**	DPiS, DP41-S, DP25B-S
220 lb	100 kgf	**LCMHD-100**	DPiS, DP41-S, DP25B-S
551 lb	250 kgf	**LCMHD-250**	DPiS, DP41-S, DP25B-S
1102 lb	500 kgf	**LCMHD-500**	DPiS, DP41-S, DP25B-S
2205 lb	1000 kgf	**LCMHD-1K**	DPiS, DP41-S, DP25B-S
3307 lb	1500 kgf	**LCMHD-1.5K**	DPiS, DP41-S, DP25B-S
4409 lb	2000 kgf	**LCMHD-2K**	DPiS, DP41-S, DP25B-S
5512 lb	2500 kgf	**LCMHD-2.5K**	DPiS, DP41-S, DP25B-S
11,023 lb	5000 kgf	**LCMHD-5K**	DPiS, DP41-S, DP25B-S
16,535 lb	7500 kgf	**LCMHD-7.5K**	DPiS, DP41-S, DP25B-S
22,046 lb	10,000 kgf	**LCMHD-10K**	DPiS, DP41-S, DP25B-S

Comes complete with 5-point NIST-traceable calibration, mating connector, and 59 kΩ shunt data.
** 4-digit meter.*
*** DPiS meter suitable for one direction measurement only.*
***Note:** Models >300,000 lb are calibrated at 300,000 lb—see Specifications.*
***Ordering Examples: LCHD-500,** 500 lb capacity load cell.*
***LCMHD-500,** 500 kgf capacity load cell.*
***PT06F10-6S,** mating connector (included). **LCMHD-10K,** 10,000 kgf capacity load cell.*
***MS3106E-14S-6S,** mating connector (included).*

POPULAR OPTIONS

DESCRIPTION	SUFFIX
5V Output Calibrated 0 to 5 Vdc in tension. (Output is bi-directional ± 5 Vdc)	**"-5T"**
Overload Stops	**"-OL"**
Dual Bridge ≤5000 lb/2500 kgf >5000 lb/2500 kgf	**"-DUAL" "-DUAL"**
Extended Temperature Range between: -45 to 93°C (-50 to 200°F) and to 163°C (325°F)	**"-TC1" "-TC2"**



PT06F10-6S, mating connector (included).

ACCESSORIES

MODEL NO.	DESCRIPTION
MS3106E-14S-6S	Spare mating connector for units above 5000 lb capacity
PT06F10-6S	Spare mating connector for units below 7500 lb capacity

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