

Low Profile "Pancake Style" Load Cell

LCHD



- ✓ 5 Point NIST Traceable Calibration, Certificate Supplied
- ✓ 0.25% Interchangeability for Scale Applications
- ✓ All Stainless Steel Construction
- ✓ Rugged Heavy Duty Design
- ✓ High Accuracy
- ✓ Low Profile For Easy Installation
- ✓ See Related Link Below for Ready Made Cable Assemblies
- ✓ New! Waterproof Model - See Model LSHD

The LCHD is also **available in metric configurations**, with ranges from 0-2.5 to 0-10,000 kgf and metric threads. Please contact our Pressure department for more information.

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 \pm 10 Ω **FS Deflection:** 0.025 to 0.076 mm (0.001 to 0.003") typical**Construction:** 17-4 PH stainless steel**Electrical:** **\leq 5000 lb/2000 kgf:** DT02H-10-6P **$>$ 5000 lb/2500 kgf:** MS3102E-14S-6P (or equiv.)**Mating Connector (Included):** **\leq 5000 lb/2000 kgf:** PT06F10-6S **$>$ 5000 lb/2500 kgf:** MS3102E-14S-6S (or equiv.)**Compatible Meters:** DP41-S, DP25-S, LDP63000-S**POPULAR OPTIONS**(add as suffix)**-5T** \pm 5 Vdc Output (0 to 5 Vdc in either direction), add \$175, ranges \geq 5000 lb**-DUAL** Dual Bridge, \$250 ranges \leq 5000 lb; \$350 ranges $>$ 5000 lb**-TC1** Extended Temperature Range -50 to 200°F, \$50**-TC2** Extended Temperature Range -50 to 325°F, \$125**-OL** Overload Stops - Consult factory

Product Selection (Specify Model Number, see variations below in partnumber builder table)		
Part Number	Description	Qty.
LCHD-5	5 lb capacity load cell	
LCHD-10	10 lb capacity load cell	
LCHD-25	25 lb capacity load cell	
LCHD-50	50 lb capacity load cell	
LCHD-100	100 lb capacity load cell	
LCHD-250	250 lb capacity load cell	
LCHD-500	500 lb capacity load cell	
LCHD-1K	1,000 lb capacity load cell	
LCHD-2K	2,000 lb capacity load cell	
LCHD-3K	3,000 lb capacity load cell	
LCHD-4K	4,000 lb capacity load cell	
LCHD-5K	5,000 lb capacity load cell	
LCHD-7.5K	7,500 lb capacity load cell	
LCHD-7.5K-DUAL-TC2	7,500 lb capacity load cell with dual bridges and high temperature 350°F compensation	1 Week
LCHD-10K	10,000 lb capacity load cell	
LCHD-15K	15,000 lb capacity load cell	
LCHD-20K	20,000 lb capacity load cell	
LCHD-30K	30,000 lb capacity load cell	
LCHD-50K	50,000 lb capacity load cell	
LCHD-75K	75,000 lb capacity load cell	

LCHD-100K	100,000 lb capacity load cell
Ranges available to 500,000 lb by quotation	
Accessories	
DMD-465	Bipolar strain amplifier
DMD4059	Unipolar DIN rail mount strain signal conditioner
PT06F10-6S	spare mating connector for units ≤5000 lb
MS3106E-14S-6S	spare mating connector for units ≥7500 lb
CA-4PC24-4-015	15 foot 4 wire cable for LCHD load cells in 5 to 5000 pound ranges
CA-6PC24-4-015	15 foot 6 wire cable for LCHD load cells in 5 to 5000 pound ranges
CA-6PC24-4A-015	15 foot 6 wire cable for LCHD load cells in ranges > 5000 pounds
CA-4PC24-4A-015	15 foot 4 wire cable for LCHD load cells in ranges > 5000 pounds
Tension Plates	
LCHD-TP225	Tension plate for 50-1000 lb Ranges
LCHD-TP263	Tension plate for 2K to 5K Ranges
LCHD-TP450	Tension plate for 7.5K to 15K Ranges
LCHD-TP488	Tension plate for 20K to 50K Ranges

Part Number Builder

(1) (2)

LCHD- 5

Option Descriptions

(1) Range

Select

5 for 5 lb range

10 for 10 lb range

25 for 25 lb range
50 for 50 lb range
100 for 100 lb range
250 for 250 lb range
500 for 500 lb range
1K for 1000 lb range
2K for 2000 lb range
3K for 3000 lb range
4K for 4000 lb range
5K for 5000 lb range
7.5K for 7500 lb range
10K for 10000 lb range
15K for 15000 lb range
20K for 20000 lb range
30K for 30000 lb range
50K for 50000 lb range

(2) Options

Select

for

-5T for 5 Vdc Output

DUAL for Dual Bridge

TC-1 for Extended Temperature Range -50 to 200F

TC-2 for Extended Temperature Range -50 to 350F

NOTE: All combinations may not be valid, check spec sheet for valid part numbers.