

LPD Low Profile Disk, High Capacity Load Cell



These load cells are constructed with high grade alloy steel and come complete with 20 foot load cell cable. The LPD are available in capacities ranging from 5,000 lbs. up to 100,000 lbs. and are designed for low profile scales/applications.

Highlights

Load Cell Technology

- Simplifies load measurements
- Meets OIML & HB44 Class III Standards

Rugged & Reliable

- High Grade Alloy Steel
- Mechanically robust design

Easy Attachment

- Convenient mounting on bottom of sensor

Multiple Load Cell Capacities

- LPD - 5,000 lb.
- LPD - 10,000 lb.
- LPD - 25,000 lb.
- LPD - 50,000 lb.
- LPD - 100,000 lb.

Load Sensing Made Easy!



Precise
Non-Linearity from 0.03% of full scale.



Rugged
High Grade Alloy Steel construction.



Easy Mounting
Threaded mounting holes for easy attachment using standard fixtures.

Approvals



Analog to Digital USB Output



Simply connect the load cell to the DI-1000 Digital Load Cell Interface & use the USB out port on the DI-1000 to connect to a PC via the USB port. The load cell appears on the PC as a virtual COM port. Using a standard terminal emulator send commands to the sensor to display loads on screen. They can either be one at a time or in continuous operation mode. Alternatively, use an application (LoadVUE or LoadVUE Lite) to simplify load measurements on a PC.

Sensors



Display & Controller



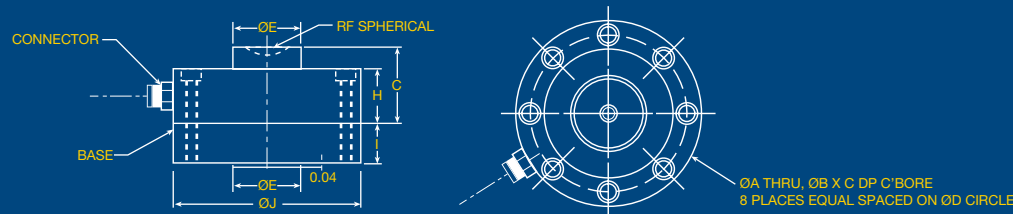
Software



LPD Low Profile Disk High Capacity Load Cell

Dimensions (inches)

Capacity (Lb.)	A	B	C	D	E	F	G	H	I	J
5K	0.283	0.406	0.3	3.5	1.30	0.625	1.75	1.25	0.75	4.12
25K, 50K	0.343	0.508	0.4	4.0	1.60	0.875	2.12	1.87	0.94	4.75
100K	0.406	0.626	0.4	4.6	2.00	0.875	2.25	2.00	1.14	5.50



Load Cell Specifications

Accuracy	Non-linearity	Hysteresis	Non-repeatability
All capacities	±0.03 %	±0.02 %	±0.05 %
Zero Balance	±2 %		

Mechanical

Safe Overload to 150% of capacity (300% Ultimate Overload)

Electrical

Rated Excitation	10V DC (20V Maximum)
Full Scale Output	4 mv/V ±0.25%
Connections	20 Feet
Input Impedance	385 ± 30 Ohm
Output Impedance	350 ± 4 Ohm
Insulation	> 5,000M Ohm

Environmental

Creep, in 1 Hour	±0.020 % of load
Operating Temperature Range	-40°C to 80°C
Temperature Effect on output	20 ppm/°C of Load
Temperature Effect on zero	20 ppm/°C of Full Scale

Optional DI-1000 Digital Load Cell Interface

Works with existing load cells and provides USB connectivity to a PC! Just plug in the SPS load cell into one connector of the DI-1000 and plug the other USB connector to a PC and you get a PC ready load cell.



- Output - Virtual Com
- Output Format - ASCII Text
- Data Rate - 10 samples/sec

Optional LoadVUE software

LoadVUE is Loadstar Sensors' software application that enables a user to read data from one to four load cells. The program permits you to display individual loads plus the sum of all loads, log data on screen & to a file as well as plot/chart the data for further analysis.

Ordering Information

- 5,000 lb. - Part # LPD-05KS
- 10,000 lb. - Part # LPD-10KS
- 25,000 lb. - Part # LPD-25KS
- 50,000 lb. - Part # LPD-50KS
- 100,000 lb. - Part # LPD-100KS

Wiring Information

Cable Color Code

Red.....+ Excitation
Black.....- Excitation
Green.....+ Signal
White.....- Signal

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