

RSP1 Single Point, Aluminum Load Cell

Dimensions



Wiring Information

Cable Color Code	
Red	+ Excitation
Black	- Excitation
Green	+ Signal
White	- Signal

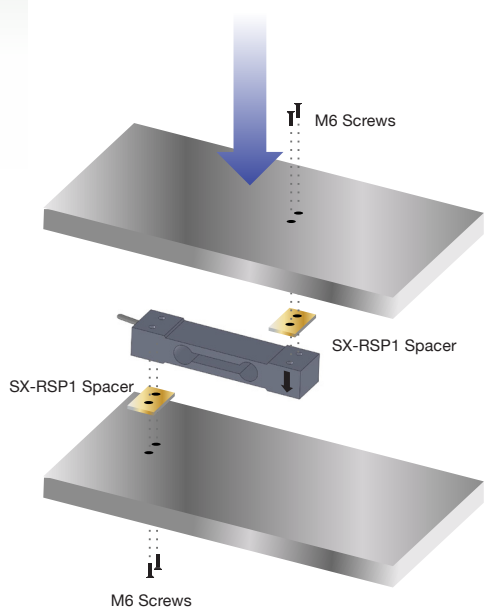
Ordering Information

Multiple Load Cell Capacities	
RSP1	Part No.
5 kilogram	RSP1-005M-A
10 kilogram	RSP1-010M-A
20 kilogram	RSP1-020M-A
50 kilogram	RSP1-050M-A
150 kilogram	RSP1-150M-A

Calibration Options

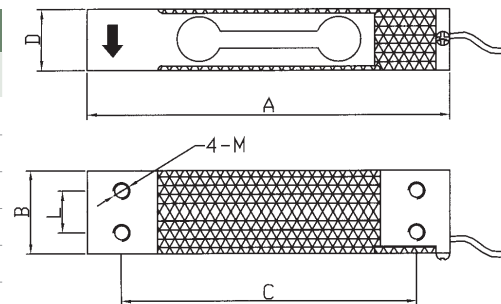
*C01	Compression
*C02	Tension
*C03	Universal

Mounting Instructions



Capacity	kg	
	3, 5, 10, 20, 50	150 to 250
A	130	130
B	30	50
C	106	106
D	22	22
L	15	24
M	M6	M8

(All dimensions are in mm)



Accuracy Specifications

Accuracy	
Non-linearity	± 0.015% of Full Scale
Hysteresis	± 0.015% of Full Scale
Non-repeatability	± 0.01% of Full Scale

Load Cell Specifications

Zero Balance	± 2%
Safe Overload	to 150% of capacity (200% Ultimate Overload)
Rated Excitation	10V DC (15V Maximum)
Full Scale Output	2 mV/V ± 10%
Connections	450mm Cable
Input Impedance	410 ± 15 Ohm
Output Impedance	350 ± 3 Ohm
Insulation	> 2,000 MΩ / 50 VDC
Creep, in 30 min	± 0.017% of Full Scale
Operating Temperature Range	-20°C to 40°C with TARE
Temperature Effect on Output	0.017% of Full Scale/10°C
Temperature Effect on Zero	0.017% of Full Scale/10°C
Platform Size	250 mm x 300 mm
Seal Type	IP65

Compatible Accessories

Recommended Interfaces



USB Interface

1 Channel:
DI-100U (40 Hz)
DI-100UHS (250 Hz)
DI-1000U (60 Hz)
DI-1000UHS (500 Hz)
DI-10000UHS-1K (1 KHz)
DI-1000UHS-10K (50 KHz)

4 Channel:
DI-400U (40 Hz)
DI-400UHS (250 Hz)



Wireless Interface

DI-1000ZP
DI-1000WiFi
DI-1000BLE



Analog Interface

AI-1000 (0-5 VDC)
AI-1000CV (0-5 VDC, 4-20 mA)



Touchscreen Display

DS-3000Pro-1 (1 Channel)
DS-3000Pro-4 (4 Channel)

For Smaller Size, See RAPG Load Cells

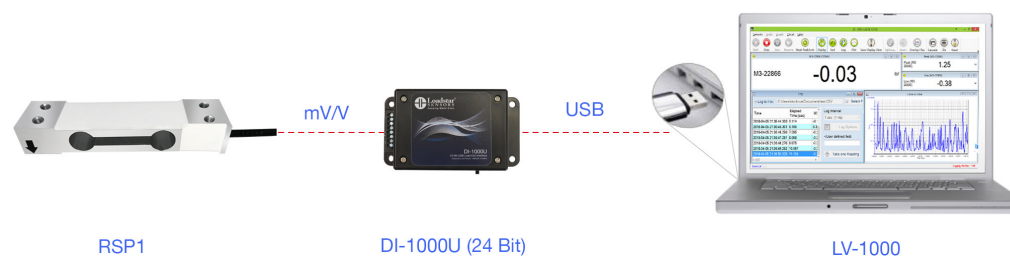
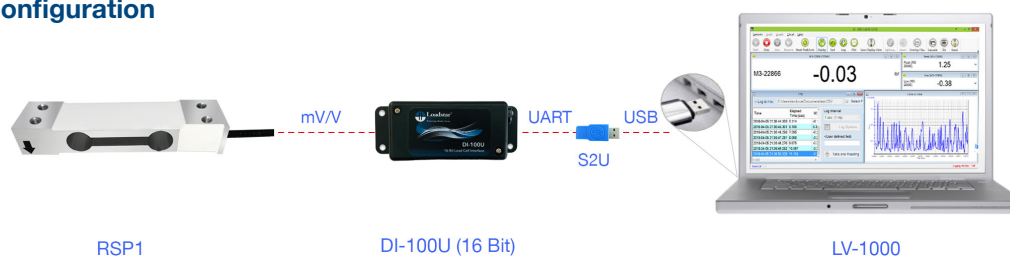
For Higher Capacities, See RAP4/RAP3 Load Cells

For Applications Where you Sell by Weight, See NTEP Certified RRP1/RRP2 Load Cells

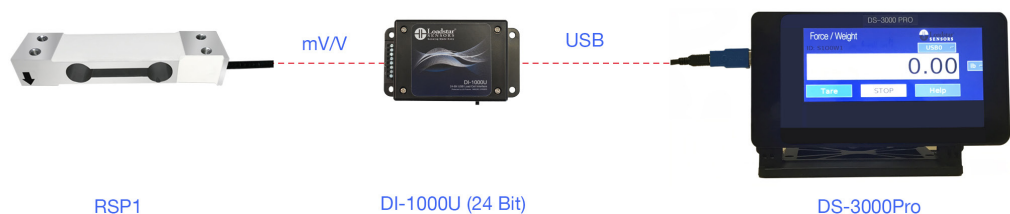
Wireless Load Cell Configuration



USB Load Cell Configuration



Load Cell with LED Display



Analog Load Cell Configuration

