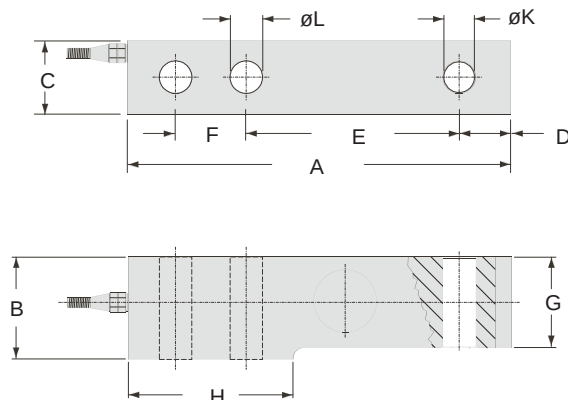


Model 103 Load Cell

Order Code BL805

- Low Cost
- 200 to 20,000 lb. (100 to 10,000 kg) Range
- +/- 0.02% Total Error



Wiring Code

Red	(+) Supply
Black	(-) Supply
Green	(+) Output
White	(-) Output

Dimensions

Load (lb.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	L (in.)	K (in.)
200 to 1,000	5.31	1.42	1.02	0.71	2.95	0.98	1.26	2.28	0.45	0.45
2,000 to 4,000	5.31	1.50	1.18	0.71	2.95	0.98	1.34	2.28	0.53	0.53
6,000 to 10,000	6.69	1.89	1.50	0.79	3.35	1.97	1.53	3.11	0.71	0.73
20,000	10.35	2.36	2.36	1.18	4.65	3.54	2.05	5.63	1.02	1.02

Load (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L (mm)	K (mm)
100 to 300	135	36	26	18	75	25	32	58	11.5	11.5
500 to 2,000	135	38	30	18	75	25	34	58	13.5	13.5
3,000 to 5,000	170	48	38	20	85	50	39	79	18	18.5
10,000	263	60	60	30	118	90	52	134	26	26

Performance

Load Ranges.....	250; 400; 600; 1,000; 2,000; 4,000; 6,000; 10,000; 20,000 lb.100; 250; 300; 500; 1,000; 2,000; 3,000; 5,000; 10,000 kg
Total Error.....	+/- 0.02% Full Scale
Output (tolerance).....	2.0 +/- 0.002 mV/V (nominal)
Creep (max.).....	+/- 0.02% Full Scale (30 minute)

Environmental

Temperature, Operating.....	-20° to 160° F (-30° to 70° C)
Temperature, Compensated.....	0° to 130° F (-20° to 55° C)
Temperature, Effect	
Zero.....	+/- 0.02% Full Scale/ 10° C
Span.....	+/- 0.02% Full Scale/ 10° C

Electrical

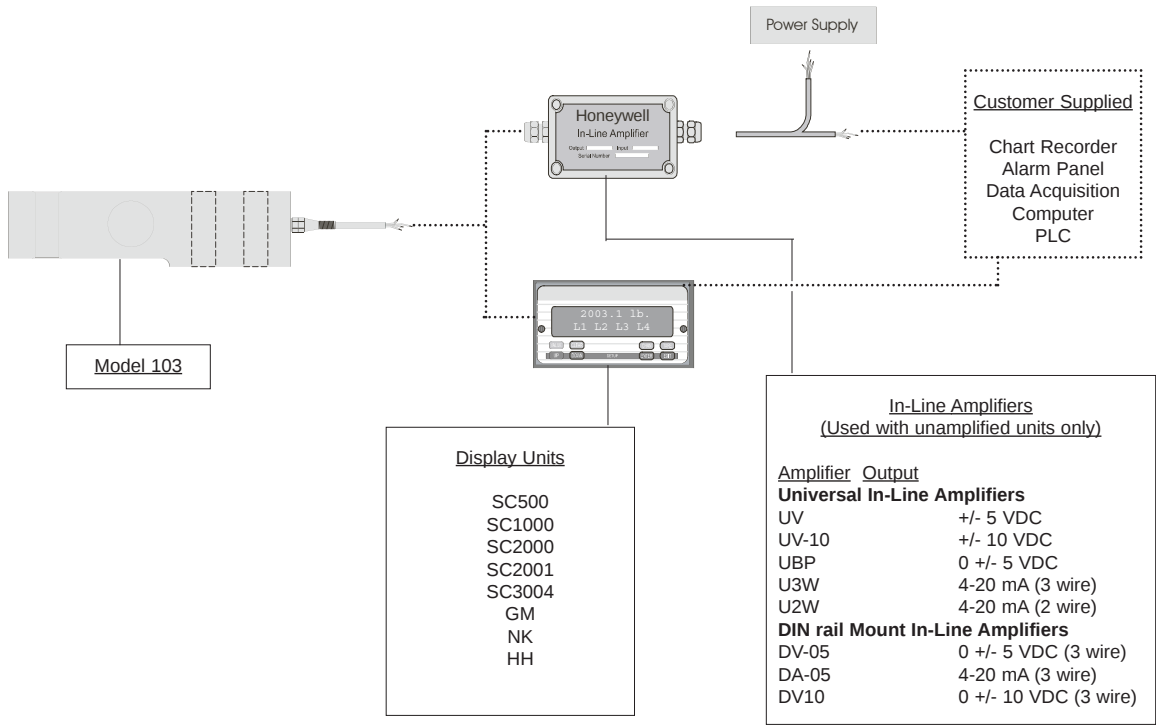
Strain Gage Type.....	Bonded Foil
Excitation (calibration).....	10-12 VDC
Excitation (max.).....	15 VDC
Insulation Resistance.....	>= 5000 MegaOhms
Bridge Resistance (tolerance)	
Input Resistance.....	400 +/- 10 Ohms (nominal)
Output Resistance.....	352 +/- 2 Ohms (nominal)
Zero Balance (tolerance).....	+/- 1% Full Scale
Electrical Termination (std)	
200 to 600 lb. (100 to 300 kg).....	9.8 ft. (3m) Cable (flying leads)
1,000 to 10,000 lb. (1,000 to 5,000 kg).....	16.4 ft. (5m) Cable (flying leads)
20,000 lb. (10,000 kg).....	16.2 ft. (8m) Cable (flying leads)

Model 103

Mechanical

Static Overload Capacity.....50% over capacity (note 1)
Material.....Alloy Steel
Life Cycles (approx.).....10 million cycles
Deflection.....Less than or equal to 0.06 in. (1.5mm)

Typical System Diagram



Range Codes

Range	Range Code	Range	Range Code
250 lb.	CN	100 kg	LF
400 lb.	CQ	250 kg	LG
600 lb.	CS	300 kg	LH
1,000 lb.	CV	500 kg	LK
2,000 lb.	DL	1,000 kg	LN
4,000 lb.	DP	2,000 kg	LQ
10,000 lb.	DV	5,000 kg	LU
20,000 lb.	EL	10,000 kg	LW

Notes

1. Allowable Maximum Loads- Maximum load to be applied without damage *2.
2. Without Damage- loading to this level will not cause excessive zero shift or performance degradation. The user must consider fatigue life for long term use and structural integrity. All structurally critical applications (overhead loading, etc.) should always be designed with safety redundant load paths.

How to Order

Combine the order code and the range code.
Sample Code: **BL805** **CQ**
Order Code Range Code