













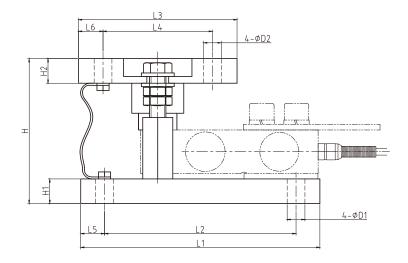
Key feature:

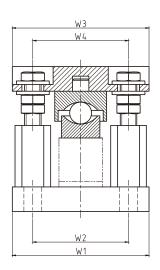
- Compact and easy installation.
- Upper plate with blind hole to be loaded.
- Adjustable height screw against overload and overturn
- Self-reset vertical force with ball between upper load cup and bottom load cup, to ensure good weighing repeatability.
- Alloy steel and stainless steel optional.
- Assembled with single-ended shear beam B510A

Product description:

The M-B510A-1A is a typical weigh module assembled with B510A load cell, which is designed for static weighing system, such as hopper, silo, vessel and tank weighing systems. Capacity is from 50kg to 10t.

Dimensions (in mm& lb):





Rated Capacity	L1	L2	L3	L4	L5	L6	Н	H1	Н2	W1	W2	W3	W4	D1	D2
lb/inches															
100-4,000; 5,000SE	6.89	5.51	4.57	3.15	0.69	0.71	4.17	0.71	0.71	3.94	2.76	3.94	2.76	0.51	0.51
5,000-10,000	9.25	7.87	5.91	3.94	0.69	0.98	5.31	0.91	0.91	6.30	3.54	6.30	3.54	0.67	0.67
15,000-20,000	12.20	9.84	8.28	5.92	1.18	1.18	7.33	1.12	1.50	7.09	4.33	7.09	4.33	1.02	1.02
kg/mm															
50-2,000	175.0	140.0	116.0	80.0	17.5	18.0	106.0	18.0	18.0	100.0	70.0	100.0	70.0	13.0	13.0
3,000-5,000	235.0	200.0	150.0	100.0	17.5	25.0	135.0	23.0	23.0	160.0	90.0	160.0	90.0	17.0	17.0
7,500-10,000	310.0	250.0	210.4	150.4	30.0	30.0	186.3	28.5	38.0	180.0	110.0	180.0	110.0	26.0	26.0

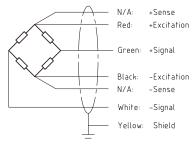


M-B510A-1A Weighing Module Specifications

Parameter		Units	Specification				
Model No.			M-B510A-1A				
Load Cell			B510A				
Rated capacity (Emax)		Ib / KIb	100; 250; 500 / 1; 2.5; 4; 5SE ⁴⁾ ; 5; 10; 15; 20				
Rated capacity (Emax	ζ)	kg/t	50; 100; 250 / 0.5; 1; 2; 3; 5; 7.5; 10				
Rated output		mV/V	3.0 ± 0.003				
Combined error		% of Emax	< ± 0.017				
Repeatability error		% of AL 3)	< ± 0.010				
Creep; 30 minute		% of AL	< ± 0.017				
Min. dead load output return (DR); 30 min		% of AL	< ± 0.017				
Temp. effect on	Min. dead load output	% of Emax/°C	< ± 0.0023				
	Rated output ²⁾	% of AL/°C	< ± 0.0020				
Temperature range	Compensated		-10 to +40 [+14 to +104]				
	Operating	°C(°F)	-30 to +65 [-22 to +149]				
	Safe storage		-40 to +80 [-40 to +176]				
Excitation voltage	Recommended	V/ A C / D C	5 ~ 15				
	Maximum	V AC/DC	15				
Terminal resistance	Excitation	Ω	382 ± 5				
Terminal resistance	Output	77	350 ± 3				
Insulation resistance @50VDC		ΜΩ	>5000				
Breakdown voltage		V AC	>500				
Seal type / IP rating			Cap. ≤250kg/500lb: Silicon rubber / IP66				
			Cap. ≥500kg/1Klb: Hermetically welded / IP68				
Load limit	Safe	% of Emax	150				
LOAU IIIIIII	Ultimate	% OI EMAX	200				
Cable length		m	Cap. ≤2000kg/5000lb SE: 3.0				
		m	Cap. ≥3000kg/5000lb: 5.0				

Notes:

Cable Colour Code: 4-wire [Optional: 6-wire]



Shield connected to load cell body

 $^{^{\}rm 1)}\,{\rm Error}$ due to the combined effect of non-linearity and hysteresis

²⁾ The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

³⁾ AL = Applied Load

⁴⁾ SE = Small Edition