



Product Description

ALBM button load cells are strain gauge based transducers with temperature compensation and excellent overall performance. This type provides a range of capacities up to 150 kN or 30 klb with better than $\pm 0.5\%$ (full scale) non-linearity. Three tapped holes are provided on the underside for ease of mounting. Fully welded cover, amplified and digitised versions are available on request.

Performance Specifications

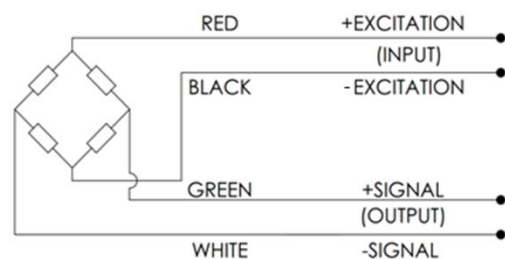
Parameter	Range	Notes
Capacity (metric)	100, 200, 500, 1000, 2000, 5k, 10k, 15k, 20k, 50k, 100k, 150k N	With metric threads as standard
Capacity (lb)	25, 50, 100, 250, 500, 1000, 2000, 3k, 4k, 5, 7.5k, 10k, 15k, 20k, 30k lb	With UNF threads as standard
Allowable maximum load	150% full scale	No effect on performance
Non-linearity	$\pm 0.5\%$ FS MAX	
Repeatability	$\pm 0.1\%$ FS MAX	
Total error	$\pm 0.8\%$ FS MAX	Non-linearity and hysteresis
Zero balance	2% FS MAX	(10% FS MAX for welded version)
Zero temp coefficient	0.01% FS / °C	
Span temp coefficient	0.02% FS / °C	
Compensated temp range	-15 °C TO 70 °C	Wider range available to order
Operating temp range	-20 °C TO 80 °C	Wider range available to order
Output	2mV/V Nominal	Amplified and digitised versions available to order.
IP Rating	IP64 – Bonded Cover IP66 – Welded Cover	Bonded cover is standard. Welded cover available to order.

Wiring

The load button is provided with 4x28 AWG wiring within a braided shielded cable (overall cable length 2m).

6-wire cable is available to order

Connector with integrated TEDS chip is available to order



Dimensions

Range	Capacity	D1 mm [in]	D2 mm [in]	H mm [in]	L mm [in]	A in	B mm [in]	G mm [in]
ALBM-1M	100 N 200 N 500 N	25,4 [1.00]	5,33 [0.21]	15,75 [0.62]	1,27 [0.05]	M3	5,59 [0.22]	19,05 [0.750]
ALBM-1U	25 lb 50 lb 100 lb	25,4 [1.00]	5,33 [0.21]	15,75 [0.62]	1,27 [0.05]	#4-40 UNC	5,59 [0.22]	19,05 [0.750]
ALBM-2M	1 kN 2 kN 5 kN 10k N	31,75 [1.25]	8,13 [0.32]	9,91 [0.39]	1,27 [0.05]	M4	6,35 [0.25]	25,4 [1.000]
ALBM-2U	250 lb 500 lb 1 klb 2 klb	31,75 [1.25]	8,13 [0.32]	9,91 [0.39]	1,27 [0.05]	#6-32 UNC	6,35 [0.25]	25,4 [1.000]
ALBM-3M	15 kN 20 kN 50 kN	38,1 [1.50]	10,16 [0.40]	16,0 [0.63]	2,03 [0.08]	M4	6,35 [0.25]	31,75 [1.250]
ALBM-3U	5 klb 10 klb	38,1 [1.50]	10,16 [0.40]	16,0 [0.63]	2,03 [0.08]	#6-32 UNC	6,35 [0.25]	31,75 [1.250]
ALBM-4M	100 kN 150 kN	50,3 [1.98]	15,24[0.60]	25,4 [1.00]	3,05 [0.12]	M4	6,35 [0.25]	41,3 [1.625]
ALBM-4U	15 klb 20 klb 30 klb	50,3 [1.98]	15,24[0.60]	25,4 [1.00]	3,05 [0.12]	#6-32 UNC	6,35 [0.25]	41,3 [1.625]

