# Model MBB

Celtron



### **Miniature Bending Beam**

#### **FEATURES**

- Capacities: 50, 100, 150, and 250 lbs
- · Low profile for low-capacity scales
- Electroless nickel-plated alloy tool steel
- Optional

• FM approval available

#### APPLICATIONS

- Silo/hopper/tank weighing
- Packaging machines
- Dosing/filling
- Belt scales/conveyor scales

#### DESCRIPTION

MBB is designed for low profile platform scales and tank scales in low capacities. It is constructed of high alloy tool steel which offers superior performance in creep characteristics and shock load capabilities over standard aluminum units.



MBB is fully potted and sealed with special chemical compounds to IP66 providing excellent protection against moisture and humidity.

OUTLINE DIMENSIONS												
			• • •	 ZZI ⊕	L	• •	₩1 ₩1	W W				
										Wiring + Excitation Red - Excitation Black + Signal Green - Signal White All Capacity Cable Length: 5' / 1.5m		
			<b>≁</b> L		— L3 —	<b>→</b>						
CAPACITY		L	L <sub>1</sub>	L2	L3	W	W1	H	H <sub>1</sub>	D1	D	T
50/100/150 lbs	mm	60.33	50	12.7	33.66	19.5	12.7	24.8	22.2	4.5	4.5	_
	(inch)	2.38	1.97	0.50	1.33	0.77	0.5	0.98	0.87	0.18	0.18	
250 lbs	mm	60.33	50	12.7	33.66	25.4	19.05	24.8	22.2	4.5	4.5	_
	(inch)	2.38	1.97	0.50 12.7	1.33 33.66	1.00 21	0.75	0.98	0.87	0.18	0.18	
50/100/150 lbs	mm	60.33	50		1 .3.3 DD				22.2	4.4	4.4	
0	(in ala)	0.00						-		0.17	0.17	
OL	(inch)	2.38	1.97	0.50	1.33	0.83	0.5	0.98	0.87	0.17	0.17	
0L 100/250 lbs VT	mm	60.33	1.97 50	0.50 12.7	1.33 33.66	0.83 25.4	0.5 19.05	0.98 24.8	0.87 22.2	6.8		
	mm (inch)	60.33 2.38	1.97 50 1.97	0.50 12.7 0.50	1.33 33.66 1.33	0.83 25.4 1.00	0.5 19.05 0.75	0.98 24.8 0.98	0.87 22.2 0.87	6.8 0.26	1/4-20UNF	_
	mm (inch) mm	60.33 2.38 60.33	1.97 50 1.97 50	0.50 12.7 0.50 12.7	1.33 33.66 1.33 33.66	0.83 25.4 1.00 25.4	0.5 19.05 0.75 19.05	0.98 24.8 0.98 24.8	0.87 22.2 0.87 22.2	6.8 0.26 6.4	1/4-20UNF 6.4	-
100/250 lbs VT 100 lbs BCl	mm (inch) mm (inch)	60.33 2.38 60.33 2.38	1.97 50 1.97 50 1.97	0.50 12.7 0.50 12.7 0.50	1.33 33.66 1.33 33.66 1.33	0.83 25.4 1.00 25.4 1.00	0.5 19.05 0.75 19.05 0.75	0.98 24.8 0.98 24.8 0.98	0.87 22.2 0.87 22.2 0.87	6.8 0.26 6.4 0.25	1/4-20UNF 6.4 0.25	
100/250 lbs VT	mm (inch) mm (inch) mm	60.33 2.38 60.33 2.38 60.33	1.97 50 1.97 50 1.97 50	0.50 12.7 0.50 12.7 0.50 12.7	1.33   33.66   1.33   33.66   1.33   33.66   1.33   33.66	0.83 25.4 1.00 25.4 1.00 25.4	0.5 19.05 0.75 19.05 0.75 19.05	0.98 24.8 0.98 24.8 0.98 24.8 24.8	0.87 22.2 0.87 22.2 0.87 22.2 0.87 22.2	6.8 0.26 6.4 0.25 6.4	1/4-20UNF 6.4 0.25 4.5	
100/250 lbs VT 100 lbs BCl	mm (inch) mm (inch)	60.33 2.38 60.33 2.38	1.97 50 1.97 50 1.97	0.50 12.7 0.50 12.7 0.50	1.33 33.66 1.33 33.66 1.33	0.83 25.4 1.00 25.4 1.00	0.5 19.05 0.75 19.05 0.75	0.98 24.8 0.98 24.8 0.98	0.87 22.2 0.87 22.2 0.87	6.8 0.26 6.4 0.25	1/4-20UNF 6.4 0.25	- - - 1/4-28UNF





### Celtron

### Miniature Bending Beam

SPECIFICATIONS							
PARAMETER	VALUE	UNIT					
NTEP/OIML accuracy class	Non-Approved						
Maximum no. of intervals (n)	3000						
Y = E <sub>max</sub> /V <sub>min</sub>	5000	Maximum available					
Standard capacities (E <sub>max</sub> )	50, 100, 150, 250	lbs					
Rated output-R.O.	3.0	mV/V					
Rated output tolerance	10	±% of rated output					
Zero balance	1	±% of rated output					
Non-linearity	0.030	±% of rated output					
Hysteresis	0.030	±% of rated output					
Non-repeatability	0.020	±% of rated output					
Creep error (20 minutes)	0.030	±% of rated output					
Zero return (20 minutes)	0.030	±% of rated output					
Temperature effect on min. dead load output	0.0026	±% of rated output/°C					
Temperature effect on sensitivity	0.0015	±% of applied load/°C					
Compensated temperature range	-10 to +40	°C					
Operating temperature range	–20 to +60	°C					
Safe overload	150	% of R.C.					
Ultimate overload	300	% of R.C.					
Excitation, recommended	10	VDC or VAC RMS					
Excitation, maximum	15	VDC or VAC RMS					
Input impedance	385±5	Ω					
Output impedance	350±3	Ω					
Insulation resistance	>5000	ΜΩ					
Construction	Nickel-plated alloy steel						
Environmental protection	IP66						

All specifications subject to change without notice.

FM Approval

Intrinsically Safe: Class I, II, III; Div. 1 Groups A-G Non-Incendive: Class I; Div. 2 Groups A-D



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