

Accurate, Reliable Weighing for Static Tank Weighing



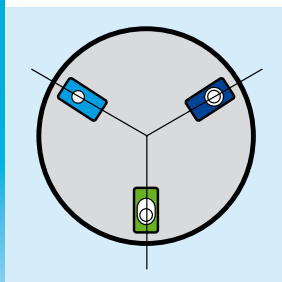
Tank Weighing

Flexmount weigh modules offer rugged construction and many features needed for accurate and reliable tank weighing. Available in capacities from 110kg to 4.4t, they are designed for easy and economical system integration.



Load Cells

Model 0745 beam load cells provide stainless steel design, hermetic sealing and IP68 protection. Thus they are ideal for harsh industrial environments such as food or pharmaceutical production processes. The "blind" load-introduction hole provides optimum loading conditions for best performance.



Self checking

Each Flexmount System consists of three different module types ... a Fixed-Pin Module, a Semi-Floating Module and some number of Full-Floating Modules. The combination is self checking while allowing a large range of thermal expansion/contraction. Many arrangements are possible to suit tanks with 3 or more legs in circular, square or rectangular patterns.



Anti-Uplift / Jacking bolt

The Anti-Uplift bolt restrains the tank from tipping over and can also be used to jack empty tanks for service. Thus Flexmount provides additional safety against wind loads when your system is installed outside. The anti-uptift bolt also has a centering washer which locates the top plate correctly for installation.



0958 Flexmount Weigh Module

Flexmount weigh modules enable you to convert a tank, silo or hopper into a weighing scale. The 0958 Flexmount can be adapted to a wide range of applications, including tanks for filling, batching and inventory management. Regardless of the application, these easy-to-install weigh modules deliver accurate and reliable performance. The self-checking function allows for economical system integration. Flexmount weigh module features are as follows:

- Capacity range 110kg – 4.4t
- Self checking for economic system integration
- Hermetically sealed stainless steel IP68 load cell
- Top plate rigidly located for easy installation
- Uplift protection
- Large range of thermal expansion/contraction possible
- Painted or stainless steel mounting hardware
- Global approvals standard on every load cell

0958 Flexmount Specifications

WEIGH MODULE			unit of measure		Specification				
Model No.			0958 Flexmount						
Rated Capacity			kg (lb)	110 (250)	220 (500)	550 (1250)	1100 (2500)	2200 (5000)	4400 (10000)
Load Limit, safe ⁹⁾	carbon steel	kg (lb)	165 (375)	330 (750)	830 (1875)	1670 (3750)	2980 (6700)	5920 (13300)	
	stainless steel	kg (lb)	165 (375)	330 (750)	830 (1875)	1670 (3750)	2300 (5160)	5200 (11700)	
Restoring Force ⁵⁾			%A.L./mm (./in) ³⁾	0 (0)					
Max. horizontal force, carbon steel	transverse ⁶⁾	kN (lb)	1.1 (250)	2.2 (500)	5.6 (1250)	7.6 (1700)	7.6 (1700)	20.7 (4660)	
	longitudinal ⁷⁾	kN (lb)	1.1 (250)	2.2 (500)	5.6 (1250)	11.1 (2500)	22.2 (5000)	44.5 (10000)	
Max. horizontal force, stainless steel	transverse ⁶⁾	kN (lb)	1.1 (250)	2.2 (500)	4.1 (920)	4.1 (920)	4.1 (920)	10.1 (2260)	
	longitudinal ⁷⁾	kN (lb)	1.1 (250)	2.2 (500)	5.6 (1250)	11.1 (2500)	22.2 (5000)	44.5 (10000)	
Max. top plate travel ¹⁰⁾	transverse	mm (in)				± 3.0 (0.12)			± 4.6 (0.18)
	longitudinal	mm (in)				± 3.0 (0.12)			± 4.6 (0.18)
Max. Uplift Force ⁸⁾			kN (lb)				22.2 (5000)	44.5 (10000)	
Weight (including load cell), nominal			kg (lb)				7 (15.5)	7.5 (16.5)	16 (35)
Material			carbon steel & 304 stainless steel						

LOAD CELL		unit of measure	Specification					
Model No.			0745A					
Rated Capacity (R.C.)		kg (lb)	110 (250)	220 (500)	550 (1250)	1100 (2500)	2200 (5000)	4400 (10000)
Rated Output		mV/V @R.C.-kg	1.940 ± 0.002					
		mV/V @R.C.-lb	2.000 ± 0.002					
Combined Error ¹⁾		%R.C.	≤ 0.03	≤ 0.018 ²⁾				
Temperature Effect			see separate Load Cell data sheet					
OIML / European Approval ⁴⁾	Class		-	C3				
	nmax		-	3000				
	Vmin	kg (lb)	-	0.032 (0.070)	0.079 (0.175)	0.159 (0.35)	0.317 (0.70)	0.635 (1.40)
NTEP Approval ⁴⁾	Class		-	III M				
	nmax		-	5000				
	Vmin	kg (lb)	-	0.032 (0.070)	0.079 (0.175)	0.159 (0.35)	0.317 (0.70)	0.635 (1.40)
ATEX Approval ⁴⁾	Rating		II 2 G Ex ia IIC T4					
			II 2 D Ex tD A21 IP6X T100°C					
			II 3 G Ex nA II T4					
			II 3 G Ex nL IIC T4					
			II 3 D Ex tD A22 IP6X T100°C					
Factory Mutual Approval ⁴⁾	Rating		304 Stainless Weigh module hardware suitable for hazardous area					
			IS / I,II,III / 1 / ABCDEFG /T4					
			NI / I / 2 / ABCD / T6					
Excitation Voltage	Recommended	V AC/DC	5 ~ 15					
	Max.	V AC/DC	20					
Terminal Resistance	Excitation	Ω	≥ 385					
	Output	Ω	350 ± 2					
Material	Spring Element		Stainless steel					
Protection	Type		welded					
	IP Rating		IP 68					
	NEMA Rating		NEMA 6/6P					
Load Limit	Safe	%R.C.	150					
	Ultimate	%R.C.	300					



¹⁾ Error due to the combined effect of non-linearity and hysteresis

²⁾ Typical values only. The sum of errors due to Combined Error and Temperature Effect on Sensitivity comply with the requirements of OIML R60 and NIST HB44.

³⁾ A.L. = Applied Load

⁴⁾ See certificate for complete information.

⁵⁾ % of Applied Load (A.L.) per mm (in) displacement of the top plate (transverse & longitudinal).

⁶⁾ Maximum horizontal force that can be applied to top plate in a direction transverse to the longitudinal axis of the load cell. Applies only to Fixed Pin module and Semi Float module assembled in standard (radial mounting) position.

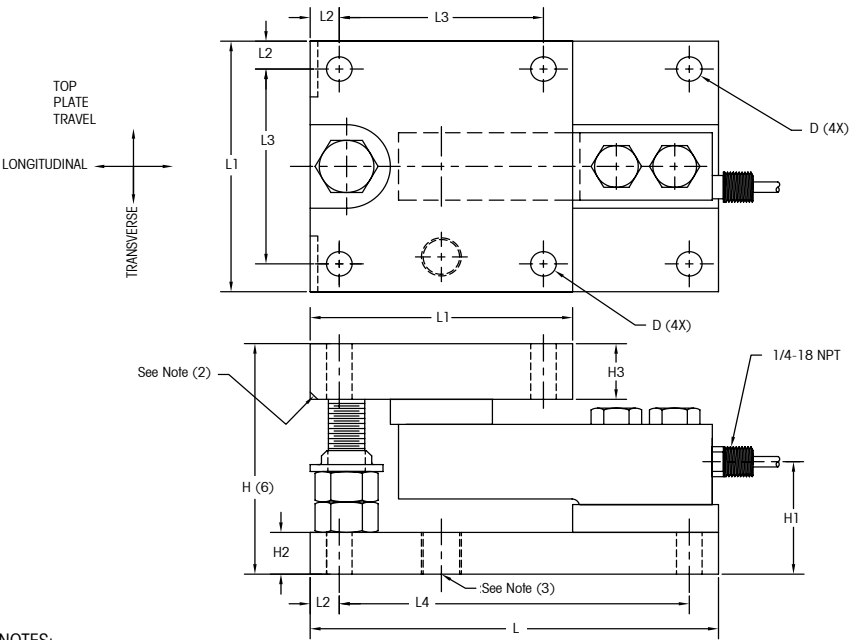
⁷⁾ Maximum horizontal force that can be applied to top plate in a direction parallel to the longitudinal axis of the load cell. Applies only to Fixed Pin module and Semi Float module assembled in non-standard (tangential mounting) position.

⁸⁾ Maximum vertical uplift force that can be applied to the top plate.

⁹⁾ Maximum vertical downward force that can be applied to the top plate.

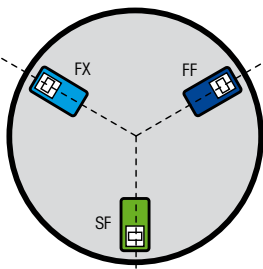
¹⁰⁾ See drawing for more detail.

0958 Flexmount Dimensional Drawings mm [inch]

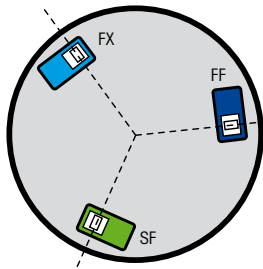


- NOTES:
- 1) Dimensions are in mm [inches]
 - 2) Mount identification (SEMI-FLOAT shown):
FULL-FLOAT: has no chamfer
SEMI-FLOAT: has two 25-mm [1] chamfers
FIXED-PIN: has chamfer all the way across
 - 3) WM's are shipped as drawn. This alternate location for hold-down screw allows top plates to be rotated 90 DEG for tangential mounting.
 - 4) Does not apply to fixed-pin module, which prevents top plate travel in both directions.
 - 5) Semi-float module allows travel in one direction only – longitudinal direction as shipped. Its top plate may be rotated 90 DEG to provide transverse travel instead.
 - 6) Shipping (jacked) height is 1.5 [0.06] higher for 110-4400kg [250-10,000lb].

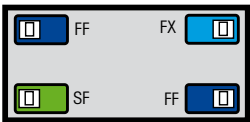
Mounting Arrangements



RADIAL MOUNTING



TANGENTIAL MOUNTING



RECTANGULAR MOUNTING

FX = Fixed
SF = Semi Float
FF = Full Float

Capacity	D	H ⁶⁾	H1	H2	H3	L	L1	L2	L3	L4
110 - 1100kg [250 - 2500lb]	11.2 [0.44]	104.4 [4.11]	47.7 [1.88]	19.0 [0.75]	25.4 [1.00]	177.8 [7.00]	114.3 [4.50]	12.7 [0.50]	88.9 [3.50]	152.4 [6.00]
2200kg [5000lb]	11.2 [0.44]	105.2 [4.14]	51.3 [2.02]	19.0 [0.75]	25.4 [1.00]	177.8 [7.00]	114.3 [4.5]	12.7 [0.5]	88.9 [3.5]	152.4 [6.00]
4400kg [10000lb]	17.5 [0.69]	136.6 [5.38]	67.1 [2.64]	25.4 [1.00]	31.8 [1.25]	235.4 [9.25]	152.4 [6.00]	25.4 [1.00]	101.6 [4.00]	184.1 [7.25]

Top Plate Travel ⁴⁾

Capacity	Full-Float		Semi-Float ⁵⁾	
	Longitudinal	Transverse	Longitudinal	Transverse
110 - 1100kg [250 - 2500lb]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	0 [0]
2200kg [5000lb]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	0 [0]
4400kg [10000lb]	+/- 4.6 [+/- 0.18]	+/- 4.6 [+/- 0.18]	+/- 4.6 [+/- 0.18]	0 [0]

0958 Flexmount Order Information

Description	Item No.		
	Fixed Pin	Semi Float	Full Float
0958 Flexmount CS 110kg/250lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61043761	61043763	61043764
0958 Flexmount CS 220kg/500lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000050	61000051	61000052
0958 Flexmount CS 550kg/1250lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000053	61000054	61000055
0958 Flexmount CS 1.1t/2500lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000056	61000057	61000058
0958 Flexmount CS 2.2t/5000lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000059	61000060	61000061
0958 Flexmount CS 4.4t/10000lb WM assy (including 0745A load cell) 9.1m (30ft) cable	61000062	61000063	61000064
0958 Flexmount SS 110kg/250lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61043765	61043766	61043767
0958 Flexmount SS 220kg/500lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000077	61000078	61000079
0958 Flexmount SS 550kg/1250lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000080	61000081	61000082
0958 Flexmount SS 1.1t/2500lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000083	61000084	61000085
0958 Flexmount SS 2.2t/5000lb WM assy (including 0745A load cell) 4.5m (15ft) cable	61000086	61000087	61000088
0958 Flexmount SS 4.4t/10000lb WM assy (including 0745A load cell) 9.1m (30ft) cable	61000089	61000090	61000091

Options

FABREEKA PAD 0-2.2t FM-CL	61005965
FABREEKA PAD 4.4t FM-CL	61005938
ACETAL PAD 0-2.2t FM-CL	61010620
ACETAL PAD 4.4t FM-CL	61010621
ULTEM PEI PADO-2.2t FM-CL	61024642
ULTEM PEI PAD 4.4t FM-CL	61037510
DEADSTAND 0-2.2t FM-CL	61010624
DEADSTAND 4.4t FM-CL	61010625
Load cell DUMMY 0-1.1t 745	68000714
Load cell DUMMY 2.2t 745	61005963
Load cell DUMMY 4.4t 745	61005964
ADAPTER CONDUIT ZN	61005937
ADAPTER CONDUIT SS	61010683

Bolded entries are stocked

0958 Flexmount Cable Colours

Colour	Function
Green	+ Excitation
Black	- Excitation
White	+ Signal
Red	- Signal
Yellow	+ Shield



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Tailored Services

Worldwide Services

Use METTLER TOLEDO service including fast parts availability from our local supply or one of our logistics centers in Europe, Asia and America. Trained technicians can assist in professional service, installation and approval worldwide.

Weighing Electronics

METTLER TOLEDO offers a complete family of electronics from simple weighing to application solutions for filling, stock control, batching, formulation, counting, checkweighing.



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