

Reliable Performance for Suspended Tanks and Hoppers

- Accuracy
- ✓ Serviceability
- International
 Approvals
- CompleteDocumentation

METTLER

TOLEDO

Tension Weigh Modules for Tank and Hopper Scales

Meliter Toledo" designed tension weigh modules for applications that require suspended mounting installations, such as tanks, hoppers, vessels, and electromechanical conversions. Tension weigh modules tolerate various adverse conditions and environmental conditions commonly present in industrial weighing applications...and still provide exceptional accuracy.

All tension weigh modules provide the same high qualify and performonce expected from the world's leading manufacturer of weigh modules. Get reliable performance when using tension weigh modules in process weighing industries like petro, chemical, food, grain, plastics, fertilizer, pharmaceutical, and aggregate.

Reliability

Tension weigh modules include the Model 736 load cell. These stainless steel load cells survive in harsh environments because of their resistance to corrosion. The electroless nickel plated hardware and stainless steel Junction Box also survive in harsh environments for the same reasons. The junction box meets NEMA 4X/IP67 standards for use in hazardous areas.

Features	Benefits
Stainless Steel Load Cells	Survive harsh environments.
Electroless Nickel Plated Hardware	Survive harsh environments.
Stainless Steel Junction Box	Survive harsh environments.
International Approvals	Meets global requirements.
Flexible Mounting Hardware	Simple to install.
Model 736 Load Cell Approvals	Increased accuracy.



Flexible Installations

With flexible mounting hardware available in either Metric (mm/kg) or U.S. (in/lb) capacities, installation is quick and easy. The unique mounting hardware ensures the load cell will measure only vertical loads while rejecting side loads.

Mettler Toleda also offers complete application and an installation support with several pieces of literature and a global sales and service network. A complete installation guidebook is shipped with every set of weigh modules. Determine individual weigh module requirements prior to a purchase with Mettler Toledo's "Do-It-Yourself Guide to Building Tank Scales."



Normally, tension weigh modules do not require check rods or bumpers to provide an accurate weighing system. However, some applications may require them to restrict lateral movement which could cause misalignment of valves and gates, or slow settling times.

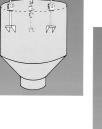
Complete Systems

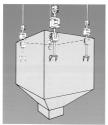
Complete Mettler Toledo tension weigh module systems include:

- Three or four weigh modules
- A stainless steel NEMA 4X (IP67) junction box
- An instrument to suit the application

Each Weigh Module includes:

- Model 736 Load Cell
- Spherical Rod Ends
- Clevises
- Clevis Pins
- Hitch Pins







	APPROVED
Approv	als
NTEP	Meet or exceed NIST Handbook 44 accurac requirements for Class III 3000 division applications. Model 736 load cells have been issued an NTEP Certificate of confor- mance #91-090. (Except 10,000 lb version
OIML	Meet or exceed OIML C3 3000d require- ments. Model 736 load cells have been approved on European Certificate 12206 for Class III & IV devices nmax 3000 divi- sions by the Nederlands Meetinstituut! (NM
CE	Model 736 load cells meet European Standards and have been issued a CE Declaration of Conformance.
FM	Model 736 load cells are Factory Mutual Approved for use in hazardous areas when used with Mettler Toledo Intrinsically safe instrumentation.
EX	Model 736 load cells have European Approval for use in hazardous areas



when used with Mettler Toledo

Intrinsically safe instrumentation.

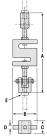
Model 736 Load Cell Specifications

				NIST H44	U.S. STA	NDARD N	MODULES	(lb)					DIML STA	NDARD M	ODULES (kg)			
Load Cell Capacity	50	100	200	300	500	1000	2000	3000	5000	10000	50	100	200	500	1000	2000	5000		
Model Number		736											736						
Excit. Volt. (VDC or VAC rms)		20 max.											20 max.						
Rated Output (mV/V)					2.0 ±0	0.005					2.0 ±0.005								
Input Resistance (Ohms)					35	0					350								
Output Resistance (Ohms)					350	±3						350 ±3							
Zero Balance (mV/V)		±0.02								±0.02									
Combined Error (% FSO)					<0.	03								< 0.03					
Non-Repeatabilty (% FSO)		<0.01								<0.01									
Creep in 20 Min. (% FSO)		<0.03 <0.03																	
Temp. Comp. Range		-10°C to+40°C										-10°C to+40°C							
Temp. Effect - Output		0.08%/100°F								0.08%/55°C									
Temp. Effect – Zero Balance					0.15%	/100°F					0.15%/55°C								
Deflection @Rated Capacity		0.006" 0.007" 0.006" 0.010" 0.012" 0.015"						15"		0.15	2 mm		0.254mm	0.31	81 mm				
Standard Cable Length					2	5"					7.62 M								
Material				17	-4ph Sta	inless Ster	el				17-4ph Stainless Steel								
Certificate Number				N	TEP COC	#91-090				*NA	EU Test Cert. TC2826 / EU Type Approval T2206								
Accuracy Class		II II								R60 C3									
Nmax		3000											3000						
Vmin	0.006	0.012	0.025	0.037	0.062	0.125	0.25	0.375	0.625	1.25	0.006	0.012	0.025	0.062	0.125	0.25	0.625		
Min. Dead Load		0								0									
Safe Overload (% FSO)		150								150									
Ultimate Overload (% FSO)		300									300								
Safe Side Load (% FSO)		100							100										

* 10,000 lb Model 736 load cell is not NTEP Certified. Specifications subject to change without notice.

0978 Weigh Module **Dimensions**

NOTE: It is recommended that safety chains, or other means to prevent damage or physical harm, be used in case of component failure when used in suspended overhead installation.





FLEXMOUNT







Learn More About Mettler Toledo Weigh Modules

Call or write your authorized Mettler Toledo distributor for a copy of the "Do-It-Yourself Guide to Building Tank Scales." You'll

become acquainted with the full line of Mettler Toledo Weigh Modules for all your static, dynamic and tension weighing applications.

*Ask for FAX.

		IIST H44 U.S. STAN	IDARD MODULE	OIML STANDARD MODULES							
Capacity	50-300 lb	500-3,000 lb	5,000 lb	10,000 lb	50-100 kg	200-1000 kg	2000 kg	5000 kg			
Unit of Measure	in	in	in	In	mm	mm	mm	mm			
A	7 5/8	10 9/16	12 5/8	12 5/8	180	250	450	450			
В	2	2 1/4	2 3/4	3	51	58	70	77			
С	1 3/4	2 1/4	2 3/4	2 3/4	32	49	83	83			
D	19/32	15/16	1 3/16	1 7/16	15	24	30	37			
E	3/8 - 16	3/4 - 10	1-8	1-8	M8X1.25	M12X1.75	M24X2	M24X2			
Specifications subje	ct to change w	ithout notice.									

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