



FEATURES

- Capacity range: 500, 1.25K, 2.5K, 5K, and 10K lb (227, 567, 1.13K, 2.27K, and 4.5K kg)
- High-grade, welded, stainless-steel load beams (1.25K to 10K lb)
- Sealed to IP67 standards for washdown service
- · Fixed, full-floating, and semi-floating mounting
- NTEP Certificate of Conformance
- FM and CSA approved

DESCRIPTION

BLH EconoMount Weigh Modules are well suited for general industrial applications that require retrofitting an existing structure or hopper into a scale. The EconoMount System uses a stainless steel beam transducer coupled with fixed, full-floating, or semi-floating mounting hardware. The combination of all three types, under a structure, results in a checkless system that also can accommodate moderate degrees of thermal expansion and contraction.

EconoMount units come in standard capacity ranges of 500, 1.25K, 2.5K, 5K, and 10K pounds with either painted alloy

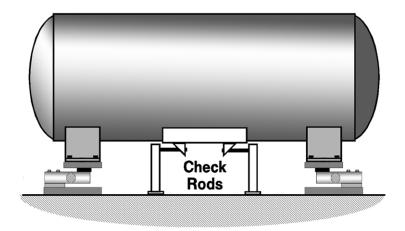
(standard) or stainless steel (optional) mounting hardware. Load beam sealing meets NEMA 4 and IP67 requirements.

EconoMount 1.25K through 10K pound modules are NTEP Certified for Class III and IIIL scale systems.

APPLICATIONS

- Storage tank weighing
- Bin/hopper scale conversion
- Level system measurement
- Platform scales

CONFIGURATION





MODULE CONFIGURATION ADVANTAGES

The BLH EconoMount System consists of three types of module mounting hardware. Each three or four support weigh system consists of a combination of fixed, semi-floating, and full-floating mounting hardware types. The full combination results in a checkless weigh system that accommodates moderate amounts of thermal expansion and contraction.

Fixed Mounting Modules

The fixed type mounting module design restricts movement in both horizontal directions while allowing a moderate degree of mounting plate angular movement to accommodate construction variances. This module type is installed on only one support to provide a fixed system 'anchor'.

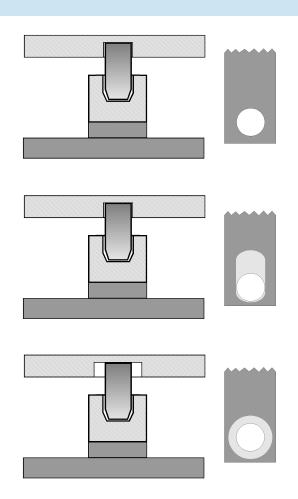
Semi-Floating Modules

The semi-floating module design restricts lateral horizontal movement, but allows radial horizontal movement and a moderate degree of mounting plate angular movement to accommodate construction variances. This module type is installed at one support only to provide a guide for thermal expansion and contraction.

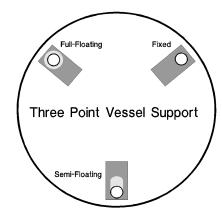
Full-Floating Modules

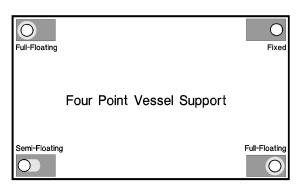
The full-floating module allows movement in both horizontal directions and angular movement of the mounting plate. At least one, full-floating module is needed in each system to accommodate thermal expansion and contraction in all directions.

All three module types use the same load beams, base plates, and assembly bolts. All types also conform to the same outline dimensions and performance specifications.



RECOMMENDED MOUNTING ARRANGEMENTS







LEVEL SYSTEM APPLICATIONS

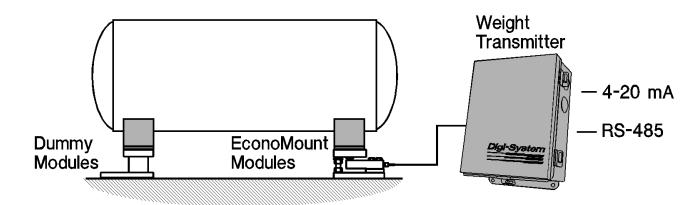
Installing a load cell under only one or two supports of a vessel results in an inexpensive, non-intrusive, highly reliable method of measuring level. Weight or mass is an inherently more accurate means of measuring vessel contents because it is independent of the vessel shape, temperature, and specific gravity of the contents. The non-contact nature of the measurement and proven reliability of a strain gage based transducer results in significantly lower maintenance costs as compared to other level measurement technologies.

EconoMount Weigh Modules are a good choice for partially supported weigh systems for level measurement applications. The full-floating and semi-floating hardware accommodate moderate degrees of vessel thermal expansion and contraction without error while dummy (or simulated) modules are available for feed installation at non-instrumented vessel supports.

Symmetrical, level vessels with self-leveling liquids or solids and minimal connected piping can achieve accuracies of better than 0.5%.

On three point support systems, we recommend the use of a single, full-floating module and two dummy modules. On four point support systems, one full-floating, one semi-floating, and two dummy modules are recommended.

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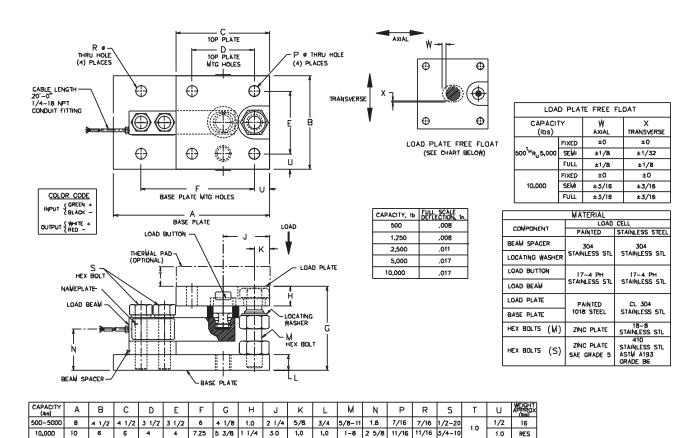


ORDERING CODES

EconoMount Three Support Tank Sets Consisting Of: 1- Full Floating Module, 1-Semi-Floating Module, 1- Fixed Module									
Model Number	Cell Capacity	System Capacity	Painted Steel PN	Stainless Steel PN	Painted Dummy PN	Stainless Dummy PN			
EM-P/S-3L-500	500 lb	1.5K lb	469282	469338	469364	472798			
EM-P/S-3L-1.25K	1.25K lb	3.75K lb	469283	469339	469364	472798			
EM-P/S-3L-2.5K	2.5K lb	7.5K lb	469284	469340	469364	472798			
EM-P/S-3L-5K	5K lb	15K lb	469285	469341	469364	472798			
EM-P/S-3L-10K	10K lb	30K lb	469893	469897	472765	472799			
EconoMount Four Support Tank Sets Consisting Of: 2- Full Floating Modules, 1-Semi-Floating Module, 1- Fixed Module									
EM-P/S-4L-500	500 lb	2K lb	469288	469344	469364	472798			
EM-P/S-4L-1.25K	1.25K lb	5K lb	469289	469345	469364	472798			
EM-P/S-4L-2.5K	2.5K lb	10K lb	469290	469346	469364	472798			
EM-P/S-4L-5K	5K lb	20K lb	469291	469347	469364	472798			
EM-P/S-4L-10K	10K lb	40K lb	469895	469889	472765	472799			



OUTLINE DIMENSIONS





SPECIFICATIONS

Performance		Material	Painted	Stainless
Capacities	500, 1.25K, 2.5K, 5K, 10K lb	Load Beam	17-4 PH ss*	17-4 PH ss
	(227, 567, 1.13K, 2.27K, 4.5K kg)	Load Button	17-4 PH ss	17-4 PH ss
Rated Output (RO)	2.0 mV/V (±0.25%)	Bases and Load Plates	painted steel**	high grade ss
Repeatability	0.01% RO	Beam Spacer	304 ss	304 ss
Combined Error	0.02% RO (beam only)	Locating Washer	304 ss	304 ss
	0.10% module assembly	Saaling		
Zero Balance	1.0% RO	Sealing Load Beam	NEMA 4 and ID67	
Creep (30 minutes) 0.024% RO		Load Bealli	NEMA 4 and IP67	
Temperature Effects:		Deflection		
On Zero Balance	0.0012% RO/°F	500 lb	0.013 inches	
On Rated Output	0.0008%Load/°F	1.25 to 5K lb	0.017 - 0.025 inches	
•		10K lb	10K lb 0.025 - 0.035 inches	
Electrical		A		
Recommended		Approvals		
Excitation	10 Vdc (15 Vdc max)	FM/CSA Intrinsically	Class I, II, III; Div 1, 2; Groups A-G	
Input Resistance	350 Ohms (±7)	Safe		

Output Resistance 350 Ohms (±5)

Cable Length 20 foot, 4-conductor cable

Temperature

Safe Temperature -58 to +149°F Compensated Range +14 to +104°F

Adverse Load Ratings

Safe Overload 150% rated capacity Safe Sideload 100% rated capacity Ultimate Overload 300% rated capacity

NOTE:

NTEP (1.25 - 10K lb)

500 lb beam -alloy tool steel, electroless nickel plated

FM/CSA Nonincendive Class I; Div 2, Groups A-D

Class III-5000; Class IIIL-10000

** single component, waterborne polyurethane copolymer high gloss

BLH is continually seeking to improve product quality and performance. Specifications may change accordingly.