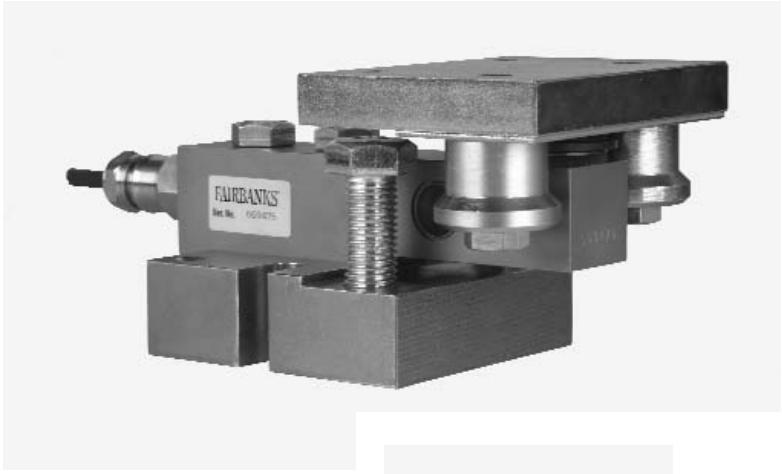
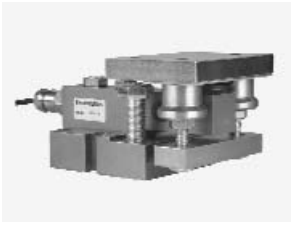
Installation Manual

Omnicell

Models: 9112





50768
Revision 2 01/08

Amendment Record

Omnicell
9112

50768

Manufactured by Fairbanks Scales Inc.
821 Locust
Kansas City, Missouri 64106

Issue #1	09/04	New Product
Revision 2	01/08	Inserted Load Cell Wiring Chart

Table of Contents

Section 1: General Information

A. Introduction

Fairbanks' Omnicell 9112 Series' tank weighing assembly is a compact, low profile weighing assembly designed for superior performance in light to medium weight ranges commercial and non-commercial.

OMNICELL® 9112 SERIES TANK WEIGHING ASSEMBLY FEATURES

- Capacities available from 1125 lbs to 22,500 lbs.
- Slider plate compensates for thermal expansion.
- Mount assembly has built-in, two-directional bumpers.
- Low profile design for easy installation.
- Load cells sealed to industry's highest standard for environmental protection.
- Load cell constructed of 17-4 stainless steel for high caustic protection.
- Mounts available in 304 stainless and zinc plated steel.
- Factory Mutual approved for hazardous applications.
- Patented MV/V/Ohm calibration for ease of installation.
- NTEP approval (except 22.5k model).

B. Specifications

Mount Construction	304 stainless steel; zinc plated mild steel
Capacities (in lbs)	1125, 2.25K, 4.5K, 11.25K and 22.5K
Full Scale Output (FSO)	2.0mV/v ± 0.05%
Combined Error (FSO)	≤ 0.03%
Non-Linearity (FSO)	0.02%
Hysteresis (FSO)	0.02%
Creep Error (30 min.)	≤ 0.05%
Compensated Temperature	14° F to 104° F (-10° C to 40° C)
Operating Temperature	-40° F to 176° F (-40° C to 80° C)
Excitation Voltage	5-15 VDC
Overload	Safe = 150%; ultimate = 300%
Sideload	Safe = 100%
Bridge Resistance	1000 ohms nominal
Load Cell Construction	Stainless Steel 17-4 PH
Sealing	Hermetic seal; cable entry sealed by glass to metal header
Load Cell Cable	20 ft., polyurethane
Protection	IP 68
Approvals	Factory Mutual; NTEP COC# 97-079 (except 22.5k model)

C. Accessories

Mild Steel Uplift Protection with bolts	25460(1125-4.5k); 25462 (11.25k); 25464(22.5k)
Stainless Steel Uplift Protection with bolts	25461(1125-4.5k); 25463 (11.25k); 25465(22.5k)

Section 2: Installation

A. General Service Policy

Prior to installation, it must be verified that the equipment will satisfy the customer's requirements as supplied, and as described in this manual. If the equipment cannot satisfy the application and the application cannot be modified to meet the design parameters of the equipment, the installation should not be attempted.

It is the customer/operator's responsibility to ensure the equipment provided by Fairbanks is operated within the parameters of the equipment's specifications and protected from accidental or malicious damage. Other than the procedures authorized in the Operating manual, no service, repair, or adjustments may be performed by unauthorized / untrained service personnel. Any unauthorized repairs will void any verbal, implied, or written warranties.

B. Overview

1. These instructions apply to the specific installation procedures. The procedures for instruments, printers and other peripherals are given in manuals specifically provided for those units.

2. All electronic and mechanical calibrations and or adjustments required to make this equipment perform to accuracy and operational specifications are considered to be part of the installation, and are included in the installation charge. Only those charges which are incurred as a result of the equipment's inability to be adjusted or calibrated to performance specifications may be charged to warranty.

3. Absolutely no physical or electrical modifications are to be made to this equipment. Electrical connections other than those specified may not be performed, and physical alterations are not allowed.

4. Before the installation is considered complete, the equipment is to be installed to meet or exceed any applicable weights and measures requirements, if applicable. The installing technician is responsible to make certain customer personnel are fully trained and familiar with the capabilities and limitations of the equipment. Be prepared to recommend the arrangement of components which will provide the most efficient layout, utilizing the equipment to the best possible advantage. The warranty policy must be explained and reviewed with the customer.

C. Unpacking

1. Check that all components are on hand and agree with the customer's order.

2. Remove all components from their packing material, checking to make certain that all parts are accounted for and no parts are damaged. Advise the shipper immediately if damage has occurred. Order any parts necessary to replace those which have been damaged. Keep the shipping container and packing material for future use. Check the packing list.

D. Installation Instruction

1. Items not Supplied

a. 3/8-16 UNC bolts- 4 required for each 4.5k capacity and under assembly.
7/16-14 UNC bolts- 4 required for each 11.25k capacity assembly.
5/8-11 UNC bolts- 4 required for each 22.5k capacity assembly.

b. 7/14-11 UNC Anchors/ bolts - 2 required for each 4.5k capacity and under assembly.
5/18-11 UNC Anchors/ bolts - 2 required for each 11.25k capacity assembly.
3/4-10 UNC Anchors/ bolts - 2 required for each 22.5k capacity assembly.

2. Raise the vessel to be supported by the Omnicell® assemblies and secure by safely blocking the vessel to the required height. See Figure 50768-1.

WARNING:
The Omnicell® assemblies **MUST** be orientated as per Figure 50768-2 or severe damage could occur to the vessel or assemblies.

3. Place each Omnicell® assembly onto a level surface under each support leg.

4. Set the assemblies for the correct orientation as shown in Figure 50768-2.

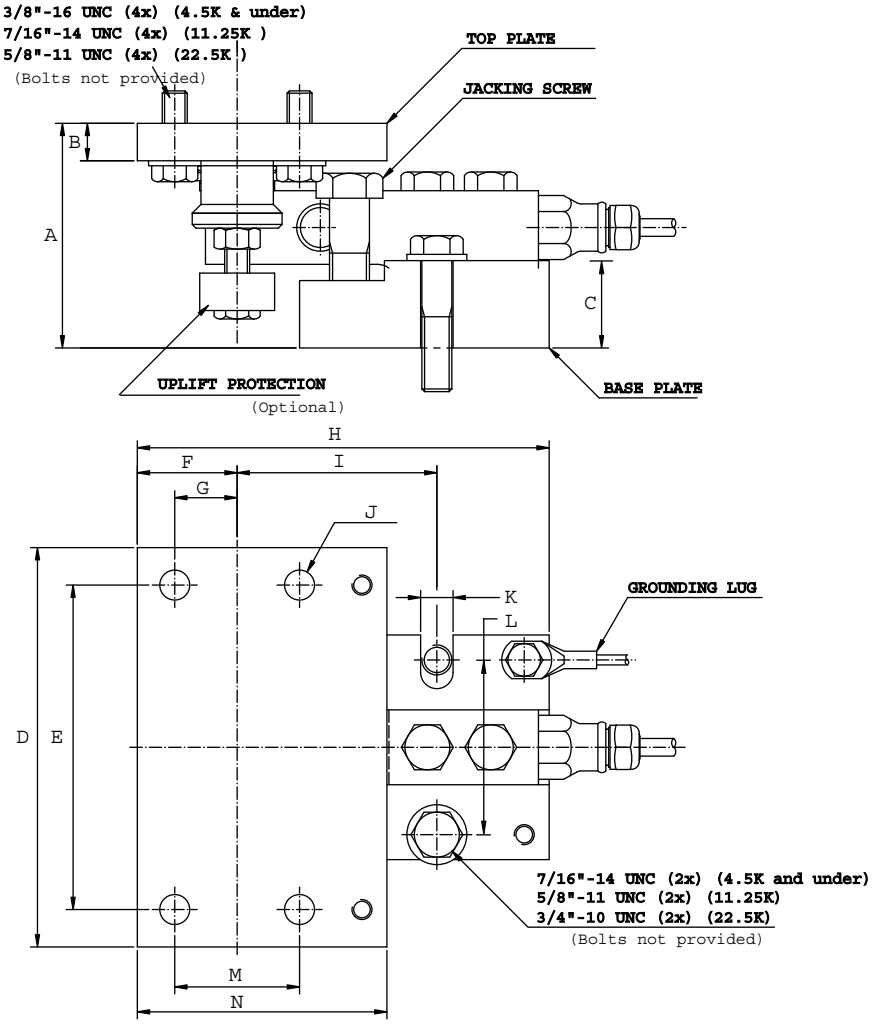
5. Adjust the load lifting/support bolt until it is against the top plate. Insert the four (4) top mounting plate bolts and loosely tighten the bolts to the support leg for each assembly.

6. Mark the location of the anchor bolt locations. Slide the assembly back and drill the anchor hole locations. Re-position the load cell assembly, level, and anchor all assemblies.

7. Lower the vessel onto the top plate of each Omnicell® assembly. Tighten the bolts securing the load plates to each support leg of the vessel. Remove all cribbing blocks. Lower the load lifting/support bolts on each assembly until the bolt has approximately 1/4” clearance and the load cell is bearing the vessel’s weight.

8. Route the cables to the junction box and indicator. Wire the Omnicell® assemblies according to the appropriate junction box and indicator service manual. Calibrate as required.

Load Cell Wiring
+ EXC = Green
- EXC = Black
+ SIG = White
- SIG = Red



50768-1

DIMENSIONS (in inches) Corresponds to drawing above.

Capacity (lbs)	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1.125k, 2.25k, 4.5k	3.54	0.59	1.18	6.30	5.12	1.57	0.98	6.50	3.15	0.47(4x)	0.47	2.76	1.97	3.94
11.25k	5.12	0.79	1.97	7.87	6.69	2.17	1.38	8.47	4.13	0.56(4x)	0.63	3.94	2.76	5.12
22.50k	6.30	0.98	1.97	10.24	8.67	2.17	1.38	10.24	5.31	0.73(4x)	0.79	5.12	2.76	5.91

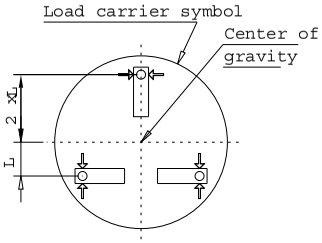


Figure 1

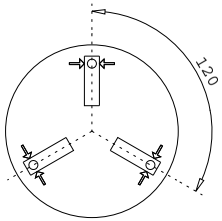


Figure 2

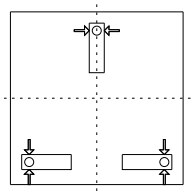


Figure 3

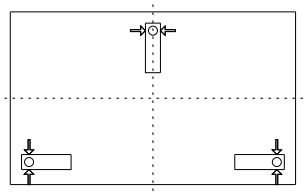


Figure 4

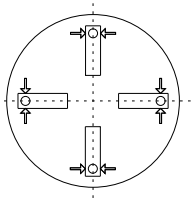


Figure 5

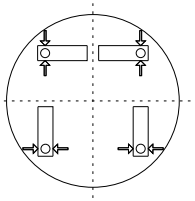


Figure 6

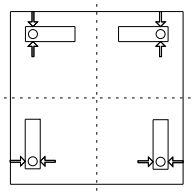


Figure 7

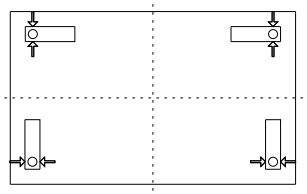


Figure 8

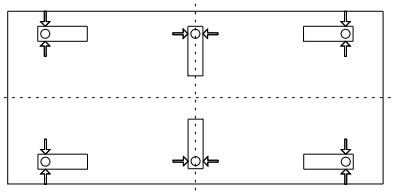


Figure 9

2-directional bumper module

1. Each individual "2-directional bumper module" can be installed rotated 180 around it's loading point.
2. For scales with 3 modules, distances to center of gravity should be chosen with ratio 1:2, as shown in figure 1, which gives even load distribution.
3. For best stability, the loading points of the modules should be as far from one another as the scale structure allows.

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Section 3: Parts List

A. Parts List

Item	Part Number	Description	Capacities
1	25529	Load cell, SS Hermetically Sealed	1125 lb
	25530	Load cell, SS Hermetically Sealed	2.25k lb
	25531	Load cell, SS Hermetically Sealed	4.5k lb
	25532	Load cell, SS Hermetically Sealed	11.25k lb
	25533	Load cell, SS Hermetically Sealed	22.5k lb
2	3-6856-A	Grounding cable w/ bolts	1125 - 11.25k lb
	3-6856-B	Grounding cable w/ bolts	22.5k lb
3	4-6851-2	Sliding plate	1125 - 4.5k lb
	4-6851-3	Sliding plate	11.25k lb
	4-6851-4	Sliding plate	22.5k lb
4	4-6843-1	Sliding loading pin	1125 - 4.5k lb
	4-6845-1	Sliding loading pin	11.25k lb
	4-6847-1	Sliding loading pin	22.5k lb

B. Accessories

Item	Part Number	Description	Capacities
5	25460	Mild Steel Uplift w/ bolts	1125 - 4.5k lb
	25461	Stainless Steel Uplift w/ bolts	1125 - 4.5k lb
	25462	Mild Steel Uplift w/ bolts	11.25k lb
	25463	Stainless Steel Uplift w/ bolts	11.25k lb
	25464	Mild Steel Uplift w/ bolts	22.5k lb
	25465	Stainless Steel Uplift w/ bolts	22.5k lb

Side Checking
Uplift Checking
Top Mounting Plate
Load Lifting Bolt
Base Plate
Grounding Cable

50768-3

Appendix I : Models

A. Mild Steel

Product Number	Description
25448	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 1125 lb capacity
25449	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 2.25k lb capacity
25450	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 4.5k lb capacity
25451	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 11.25k lb capacity
25452	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 22.5k lb capacity

B. Stainless Steel

Product Number	Description
22453	Omnicell, stainless steel mount, ss hermetic load cell, 1125 lb capacity
22454	Omnicell, stainless steel mount, ss hermetic load cell, 2.25k lb capacity
22455	Omnicell, stainless steel mount, ss hermetic load cell, 4.5k lb capacity
22456	Omnicell, stainless steel mount, ss hermetic load cell, 11.25k lb capacity
22457	Omnicell, stainless steel mount, ss hermetic load cell, 22.5k lb capacity