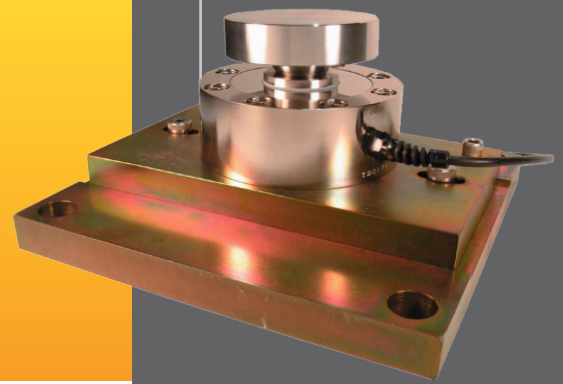




## High Capacity Weigh Module

# MK Series

**The MK Series is a rugged, high capacity weigh module constructed of steel. The MK Series is designed to accurately measure compression loads ranging from 0-5000 lbs. to 0-100,000 lbs.**



The MK Series is an extremely rugged, high capacity weigh module constructed of a nickel plated steel load cell and zinc plated mounting hardware. The MK Series weigh modules are designed to accurately measure compression loads in capacities ranging from 0-5,000 lbs. to 0-100,000 lbs. The robust, multi-shear web load cell design is integrated into the robust MK mount, which accommodates thermal expansion and contraction common to large vessels. The load cell tolerates eccentric and side loading, with minimal sensitivity to these anomalies. To facilitate installation, the ball and cup load receiver articulates in any direction to compensate for misalignment with mating support surfaces and sloped flooring. This MK Series is Harsh Environment Sealed (IP67-Limited Immersion) by virtue of proprietary, multi-redundant barriers uniquely integrated to protect all internal components. The integral cable is durable polyurethane jacketed with strain relief and features a braided, tinned-copper shield for mechanical protection and to minimize the effects of RFI and EMI. The attributes of the MK Series make it ideal for horizontal tank weighing and inventory monitoring, bulk material handling, tank and silo weighing, or for any application where a compact and easy-to-install, high capacity weighing solution is needed.



### APPLICATIONS

- Horizontal Tank Weighing
- Tank, Bin and Silo Weighing
- Bulk Material Inventory/Processing
- Level Monitoring and Control
- High Capacity Weighing

### FEATURES

- 5,000 to 100,000 lbs. Capacities
- Excellent Overall Performance
- Shear Web Load Cell Technology
- 0.1% Accuracy Class
- Plated Steel Load Cell
- Accommodates Excessive Longitudinal Expansion Common To Horizontal Tanks
- IP67 Environmental Sealing
- Two Year Warranty

For more information call **1-888-545-8988**

SENTRAN, LLC 4355 LOWELL STREET, ONTARIO, CA 91761, U.S.A.

888-545-8988 T: 909-605-1544 FAX: 909-605-6305 [www.sentranllc.com](http://www.sentranllc.com)

# MK Series Specifications

Innovative Measurement Solutions



## PERFORMANCE

Rated Capacities <sup>(1)</sup> (lbs.)	5K, 10K, 25K, 50K, 100K
Rated Output (FSO)	4 mV/V
Output Tolerance	± 0.25 % R.O.
Combined Error Band	≤ 0.05 % FSO
Non-Linearity	≤ 0.05 % FSO
Hysteresis	≤ 0.05 % FSO
Non-Repeatability	≤ 0.02 % of load
Zero balance	± 1.0 % FSO
Creep (20 Minutes)	0.03% of Load

## MECHANICAL

Material	Alloy Tool Steel
Finish	Electroless Nickel Plated
Mount Material	Steel
Mount Finish	Zinc Plated
Safe overload	Compression 150 % FSO Side Load 100% FSO
Ultimate overload	Compression 300% FSO Side Load: 200% FSO
Deflection	See Dimensions Page
Weight	See Dimensions Page

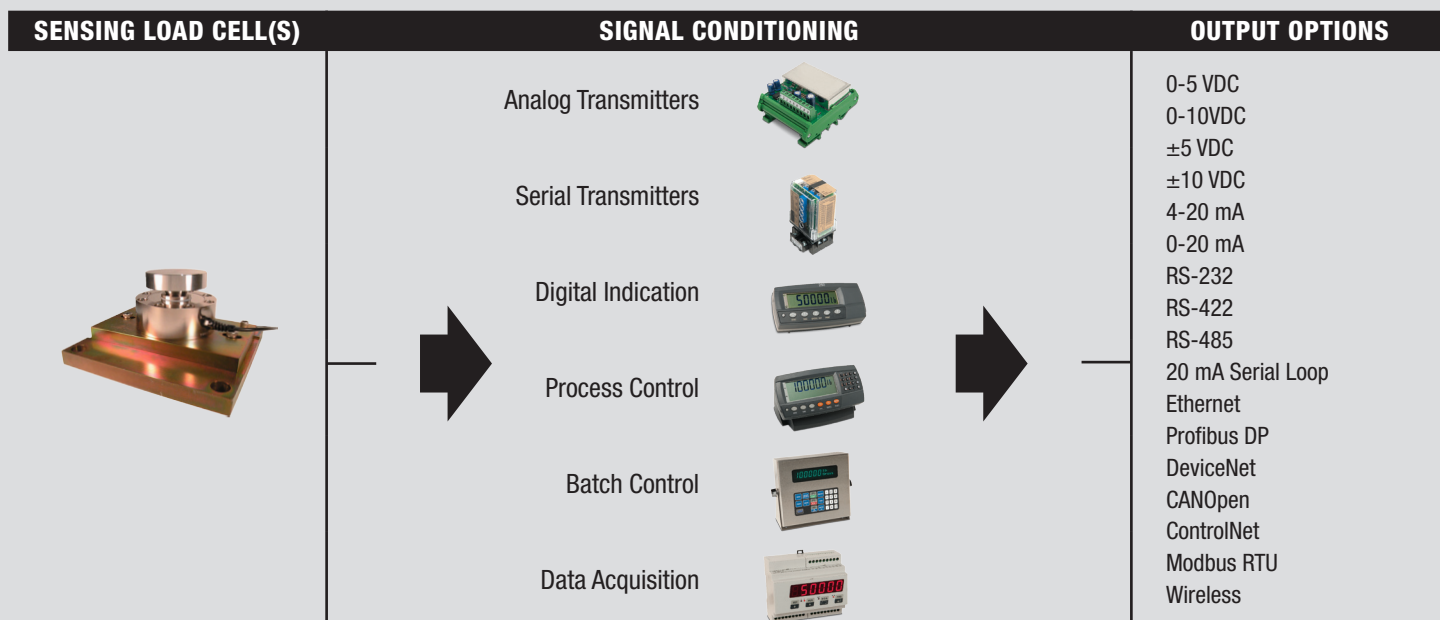
## ELECTRICAL

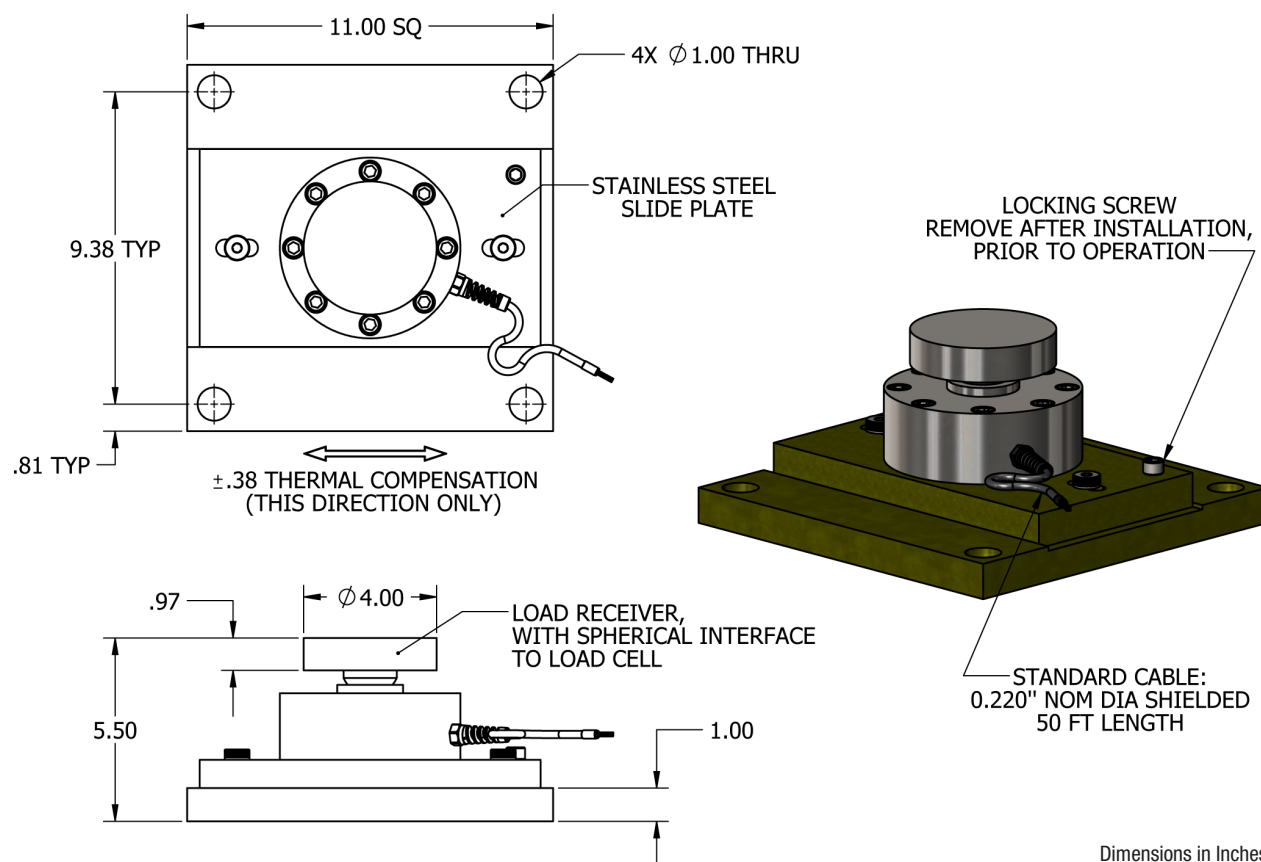
Input Impedance	385 ±5 ohms (nominal)
Output Impedance	350 ±3 ohms (nominal)
Insulation Resistance	>5000 Megohms @ 50VDC
Excitation Voltage	10 V AC/DC (15 V maximum)
Cable Color Code	+ Excitation (Red) - Excitation (Black) + Signal (Green) - Signal (White) Shield (Natural)
Cable Type	4-conductor, 22 AWG, Polyurethane Jacket, Tinned Copper Braid, Diameter: 0.220"
Cable Length	See Dimensions Table
Cable Termination	Finished Conductors
Cable Seal	Compression Fitting/Strain Relief

## ENVIRONMENTAL

Temperature, Operating	-4 to +140 °F (-20 to +60°C)
Temperature, Compensated	14 to +104 °F (-10 to +40°C)
Temperature, Storage	-40 to +170 °F (-40 to +77°C)
Temperature Effects	Zero < 0.0015% FSO/°F < 0.0026% FSO/°C
Temperature Effects	Output < 0.0008% of Rdg./°F < 0.0014% Rdg./°C
Sealing	IP67; Multi-redundant; Limited Immersion Tolerance

# MK Typical System Configuration

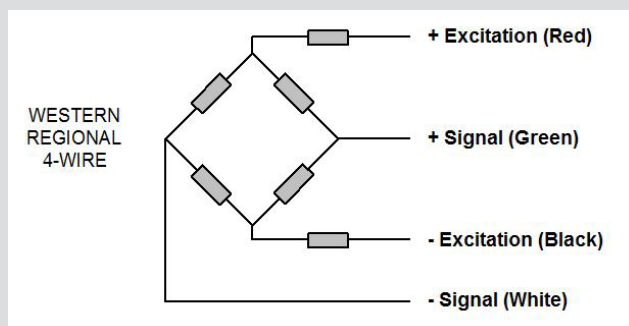




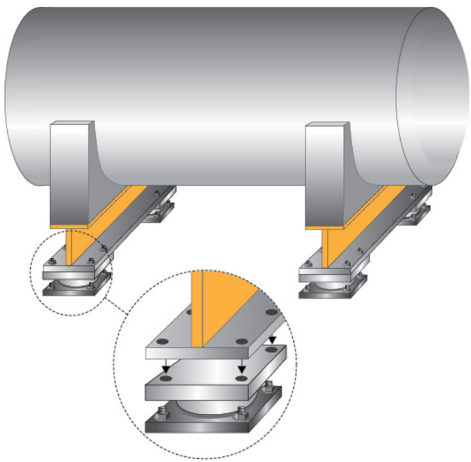
Dimensions in Inches

Capacity (LB)	Deflect	Weight
DIMENSIONS (INCHES)		
5K, 7.5K	0.010"	60.0 LBS
25K, 35K, 75K	0.010"	65.0 LBS
100K	0.010"	68.0 LBS

## MK Wiring Diagram



Horizontal Tank Weighing



## Legal Disclaimer



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