



XA4

HERMETICALLY SEALED SHEAR BEAM LOAD CELL

applications

- Harsh Environments
- Clean-In-Place/Washdown
- Tank, Bin and Hopper Weighing
- Reactor, Mixer and Blender Weighing
- OEM and VAR Solutions

features

- 1,000 to 10,000 lbs. Capacities
- Excellent Performance
- Stainless Steel Construction
- 0.02% Accuracy Class-NTEP
- IP66/67/68 Environmentally Sealed
- Matched Output Sensitivities
- Application Versatility
- Load Introduction Hardware
- Companion Weigh Modules
- Two Year Warranty

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CIP



NIST H-44 NTEP CERTIFIED "LEGAL-FOR-TRADE" PERFORMANCE

- CLASS III: 5,000D/Single and CLASS III.L: 10,000D/Single
- 1,000 Through 10,000 lbs.

The XA4 is a high performance, bonded foil strain gage load cell constructed of stainless steel and hermetically sealed. The XA4 is designed to withstand the rigors of harsh environmental conditions and to accurately measure compression loads in capacities ranging from 1,000 lbs. to 10,000 lbs. The robust, rectangular shear beam design readily tolerates angular, eccentric and side loading effects, with minimal sensitivity to these anomalies. To achieve a sealing rating of IP67 (thoroughly sealed against airborne particles and the effects of immersion up to 1 meter.) proprietary, composite environmental barriers are integrated to protect the load cell. Sealing ratings of IP 66 (high pressure wash down) and IP 68 (submersion) are achieved using suitable conduit and the standard cable conduit adapter. The cable is a durable polyurethane-jacketed cable, shielded for mechanical protection and to minimize the effects of RFI and EMI. The XA4 output signals are calibrated to a close tolerance to facilitate their use with summing/junction devices for multiple load cell applications. Versatile, stainless steel companion weigh modules; the MB Series, MF Series and the MG Series, are available for convenient weighing of tanks, bins, hoppers and similar vessels. The attributes of the XA4 makes it an ideal choice for reactor, mixer and blender weighing, material handling, and O.E.M. weighing situations where a well sealed, high performance load cell solution is needed.



MB Weigh Module



MF FlexPoint Weigh Module



MG Weigh Module

Innovative Measurement Solutions



performance



• CLASS III: 5,000D/Single and CLASS IIIIL: 10,000D/Single
• 500 Through 10,000 lbs.

Rated capacities ⁽¹⁾ (lbs.):	1K, 2K, 2.5K, 4K, 5Kse, 5K, & 10K
Rated output (FSO)	3 mV/V ± 0.25%
Combined error	≤ 0.03 % FSO
Non-linearity	≤ 0.03 % FSO
Hysteresis	≤ 0.02 % FSO
Non-repeatability	≤ 0.01 % FSO
Side Load Rejection Ratio	≤ 500:1
Creep (20 minutes)	≤ 0.03 % of load
Zero balance	≤ 1 % FSO
Zero return (20 minutes)	Better than 0.01 % FSO

⁽¹⁾ ("K" = thousand)

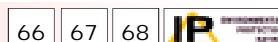
mechanical

Material:	17-4ph Stainless steel
Clean-In-Place Finish:	Electro-polished; Better than 32 micro-finish
Safe overload	Compression/Tension: 150% FSO Side load: 100% FSO
Ultimate overload	Compression/Tension: 300% FSO Side load: 200% FSO
Deflection	See Table Below
Weight	See Table Below

electrical

Input impedance	385 ± 5 ohms
Output impedance	350 ± 3 ohms
Insulation resistance	>5000 Megohms @ 50VDC
Excitation Voltage	10 V AC/DC (15 V maximum)
Cable Color code:	+ Excitation (red) - Excitation (black) + Output (green) - Output (white) Shield (bare)
Cable type	4-conductor; 22 AWG; tin-copper, braided shield; polyurethane jacket
Cable termination	Finished conductors

environmental



Temperature, operating	4 to +140 °F (-20 to +60°C)
Temperature, compensated	14 to +104 °F (-10 to +40°C)
Temperature effects:	Zero < 0.0015% FSO/°F < 0.0027% FSO/°C
	Output < 0.0008% of Rdg./°F < 0.0014% Rdg./°C
Sealing	IP66/IP67; Hermetic; Welded

options

Shunt calibration, Special cable lengths, MS connectors, Hi-Temp operation, control instrumentation and MB, MG & MF *Weigh Modules*

dimensions

DIMENSIONAL TAB BLOCK

CAPACITY (LB)	"A1"	"A2"	"B"	"C"	"D"	"E"	"H"	"T"	DEFLECTION	WEIGHT
1K - 2.5K	1.22	1.22	5.12	0.62	1.00	3.00	0.53	1/2-20 UNF-2B	0.014"	2.5 LBS. (1.1 KG)
4K - 5Kse	1.22	1.22	5.12	0.62	1.00	3.00	0.53	1/2-20 UNF-2B	0.022"	2.5 LBS. (1.1 KG)
5K	1.47	1.47	6.75	0.75	1.50	3.75	0.78	3/4-16 UNF-2B	0.020"	4 LBS. (1.8 KG)
10K	1.47	1.47	6.75	0.75	1.50	3.75	0.78	3/4-16 UNF-2B	0.027"	4 LBS. (1.8 KG)

