



Pioneering Measured Solutions

Short Selection Guide

S Beam Load Cells

group-4.com

GROUP FOUR S BEAM LOAD CELLS

The type of S beam you choose will vary with different applications. While aluminum is going to be more cost effective, the stainless steel version should be considered for harsher environment conditions. High humidity, corrosive environments or wash down areas should use a hermetically sealed S beam. The physical size differences and type of threaded connection play a factor into your S beam selection as well. At Group Four, we offer a variety of output options, from the standard millivolt output or amplified outputs to our new digital output S beam.

Group Four connects S beams and other analog systems with signal conditioners to convert analog signals into digital signals. Our process instrumentation support Ethernet/IP (AB), Profinet, EtherCAT, Modbus TCP, and other communication systems enabling high speed digital data transmissions.

Group Four's pursuit of excellence takes your measurements a step ahead into the world of digital load cells, where you will find load cells with embedded electronics thereby eliminating the need of signal amplification and conversion. You get direct digital output in RS232+CAN or RS485+RS422 format. Connect it directly to your PLC or PC, use our highly futuristic DOP4 software and leave your competition way behind.



Capacity Range:

0.02lb - 10000lb



Material Construction:

Aluminum
Plated steel
Stainless steel



Environmental Protection:

IP40, IP67,
IP68, IP69



Options:

- Different mounting and loading sizes
- Digital version



Customized solutions:

When it is not possible to match standard load cell for any application, Group Four can specially check the requirement and provide economical customized load cell solutions.

APPLICATIONS

Crane Scales



Medical Scales



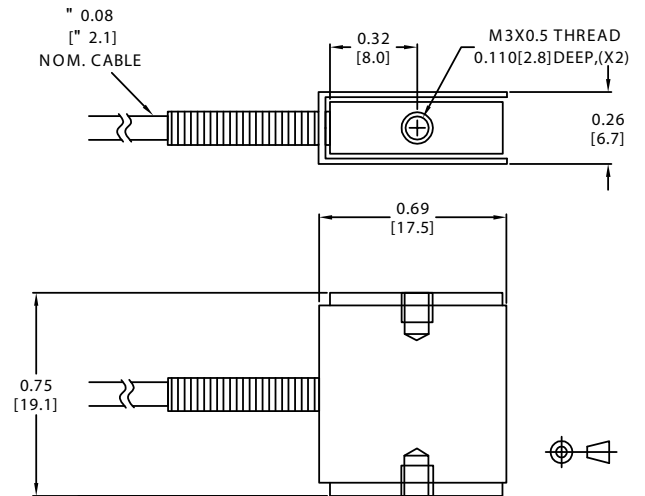
Hopper



Force Tester



LFS270



5, 25, 50lb
[10, 20, 50, 100, 250g]



Capacity (N)	Thread	Full Scale Output (mV/V)	Bridge Resistance (ohm)	Shunt Calibration Value (kohm)	Deflection (in.)	Undamped Natural Frequency (Hz)
0.1	M3X0.5	0.5	100 NOM	301	0.004	50
0.2	M3X0.5	1			0.008	35
0.5	M3X0.5	2			150	0.01
1	M3X0.5			0.008		35
20	M3X0.5		350NOM	60.4		0.002
100	M3X0.5				0.002	71
200	M3X0.5	0.003			58	



Aluminum (0.02–10 lb),
Stainless steel (25–100 lb)



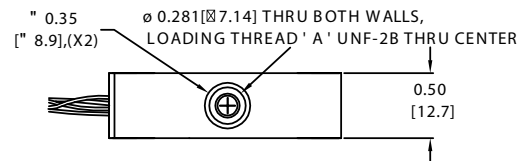
0.5 mV/V(0.02lbs)
1.0 mV/V (0.04lbs)
2.0 mV/V(0.1-100lb)



HL 0.1%FS,
HYS 0.1%FS

Digital or Wireless Output Options

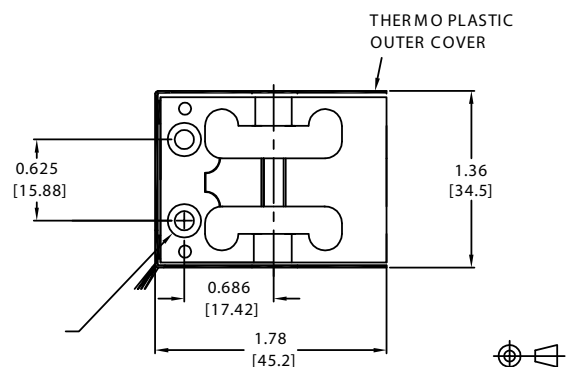
8005/8006



2-500lb
[0.9- 226.8kg]



Capacity(lb)	A
2, 5, 10, 20, 50, 100, 200	10-32
500	1/4-28



Aluminum(2-100lb)
Stainless steel (200-500lb)



2.0 mV/V



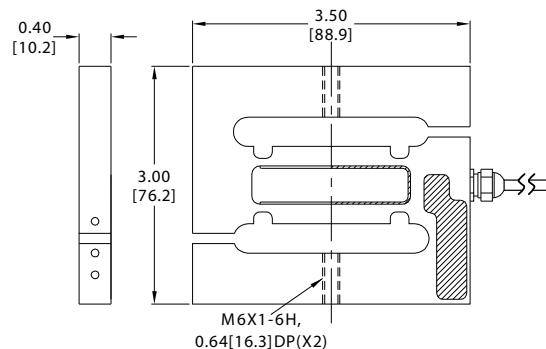
NL 0.02%FS(2-100lb),
HYS 0.02%FS(2-100lb)
NL 0.06%FS(200-500lb),
HYS 0.06%FS(200-500lb)

Digital or Wireless Output Options

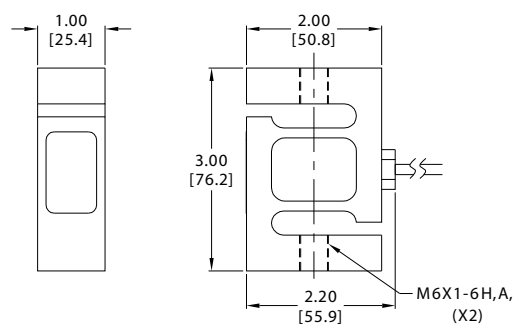
WSBM 3013



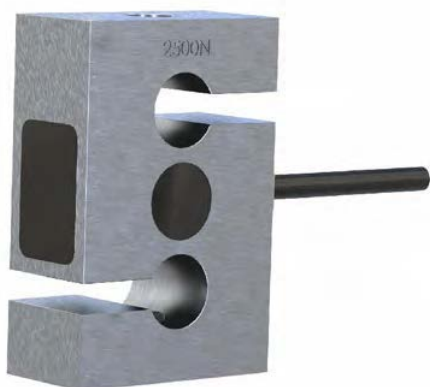
Capacity range :10-50N



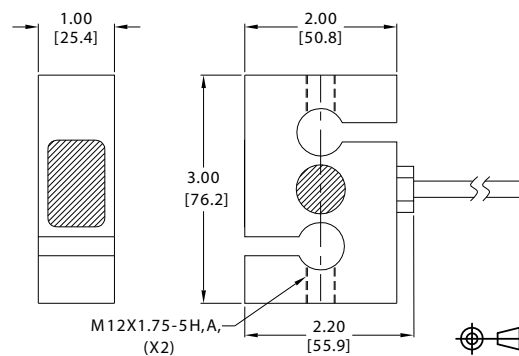
Capacity range :100-1000N



Capacity(N)	Thread depth(A) inch[mm]
100	0.53[13.5]
250	0.53[13.5]
500	0.53[13.5]
1000	0.63[16.0]



Capacity range :2500N



Capacity(N)	Thread depth(A) inch[mm]
2500	0.54[13.7]



2.25-562lb
[1- 254kg]



Aluminum



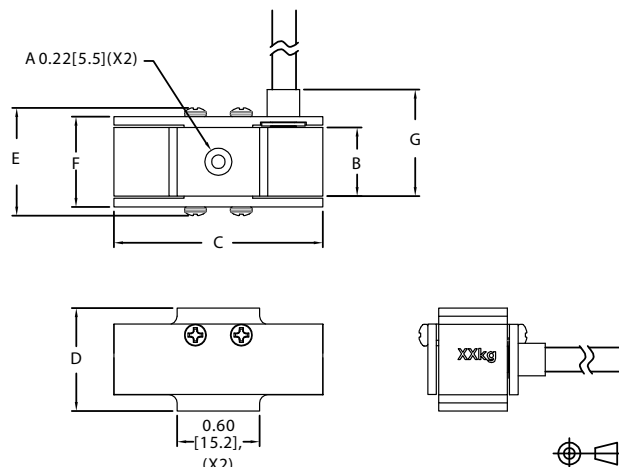
3.0 mV/V



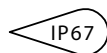
NL 0.02%FS,
HYS 0.02%FS

Digital or Wireless Output Options

ASM 8031



11-1102lb
[5- 500kg]



Capacity(kg)	Element Material	A	B	C	D	E	F	G
5-50	Anodized Aluminum	M6X1	0.50 [12.7]	1.52 [38.6]	0.75 [19.1]	0.78 [19.9]	0.66 [16.7]	0.78 [19.7]
100-500	Stainless Steel	M10X1.5	0.75 [19.1]	1.75 [44.5]	1.00 [25.4]	1.03 [26.2]	0.91 [23.0]	1.10 [28.0]



Aluminum(11-110lb)
Stainless steel (220-1102lb)



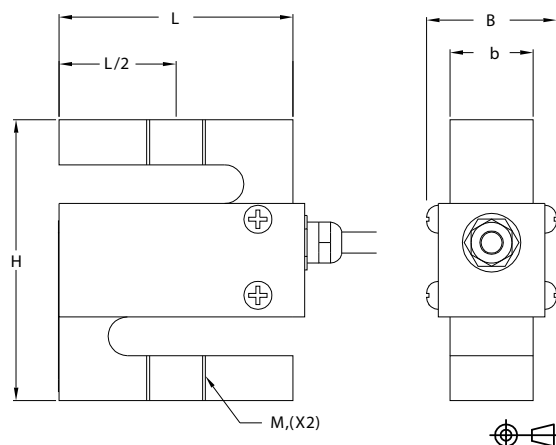
1.9 mV/V (11-44lb)
1.0 mV/V(110-1102lb)



NL 0.1%FS,
HYS 0.1%FS

Digital or Wireless Output Options

GSM 3005



50-10000lb
[22.7- 4536kg]



Capacity(lb)	L	H	b	B	M
50 - 250	2.00[50.8]	2.40[61.0]	0.46[11.7]	0.9[23]	M6X1
500- 1000	2.00[50.8]	2.40[61.0]	0.71[18.0]	1.1[28]	M12X1.75
2000	2.00[50.8]	2.40[61.0]	0.96[24.4]	1.4[35]	M12X1.75
5000-10000	3.00[76.2]	3.90[99.1]	0.96[24.4]	1.4[35]	M20X2.5



Stainless steel



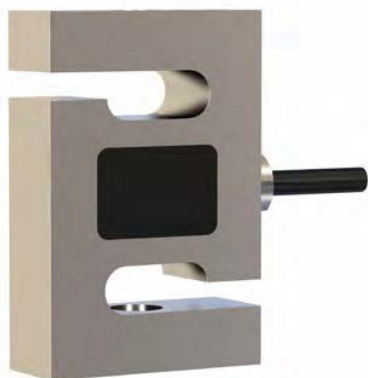
3.0 mV/V



NL 0.03%FS,
COMBINED ERROR 0.04%FS

Digital or Wireless Output Options

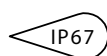
GSC 3010



5, 25, 50lb
[10, 20, 50, 100, 250g]



100-2500lb
[45-1134kg]

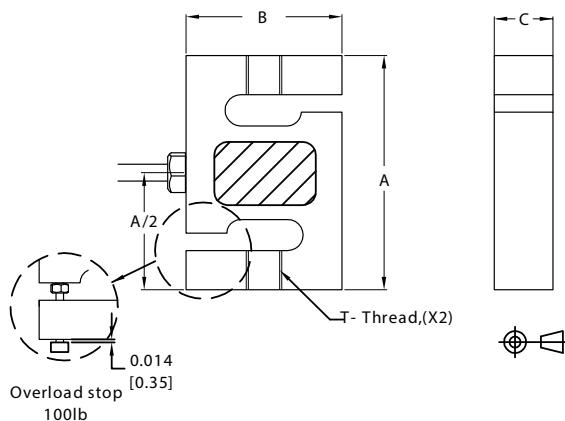


Plated steel



3.0 mV/V

Digital or Wireless Output Options

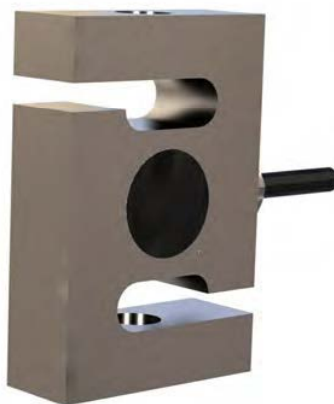


Capacity lb	A in[mm]	B in[mm]	C in[mm]	T-Thread	Overload Stop
100	2.50[63.5]	2.00 [50.8]	0.50[12.7]	1/4-28 UNF	Yes
150	2.50[63.5]	2.00 [50.8]	0.50[12.7]	1/4-28 UNF	No
250	3.00[76.2]	2.00 [50.8]	0.75[19.1]	1/2-20 UNF	No
500	3.00[76.2]	2.00 [50.8]	0.94[23.9]	1/2-20 UNF	No
1000	3.00[76.2]	2.00 [50.8]	0.94[23.9]	1/2-20 UNF	No
1500	3.00[76.2]	2.00 [50.8]	0.94[23.9]	1/2-20 UNF	No
2500	3.00[76.2]	2.36 [59.9]	0.94[23.9]	1/2-20 UNF	No



NL 0.017%FS,
HYS 0.017%FS

GSC -SS



100-2500lb
[45-1134kg]

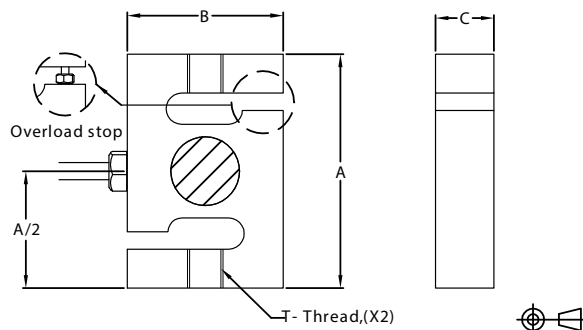


Stainless steel



3.0 mV/V

Digital or Wireless Output Options

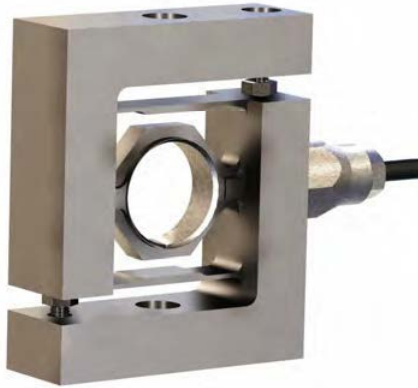


Capacity lb	A in[mm]	B in[mm]	C in[mm]	T-Thread	Overload Stop
100	2.50 [63.5]	2.00 [50.8]	0.50 [12.7]	1/4-28 UNF	Yes
150	2.50 [63.5]	2.00 [50.8]	0.50 [12.7]	1/4-28 UNF	No
250	3.00 [76.2]	2.00 [50.8]	0.75 [19.1]	1/2-20 UNF	No
500	3.00 [76.2]	2.00 [50.8]	0.94 [23.9]	1/2-20 UNF	No
1k	3.00 [76.2]	2.00 [50.8]	0.94 [23.9]	1/2-20 UNF	No
1.5k	3.00 [76.2]	2.00 [50.8]	0.94 [23.9]	1/2-20 UNF	No
2.5k	3.00 [76.2]	2.36 [59.9]	0.94 [23.9]	1/2-20 UNF	No

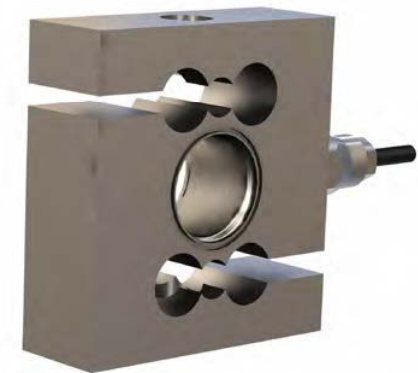
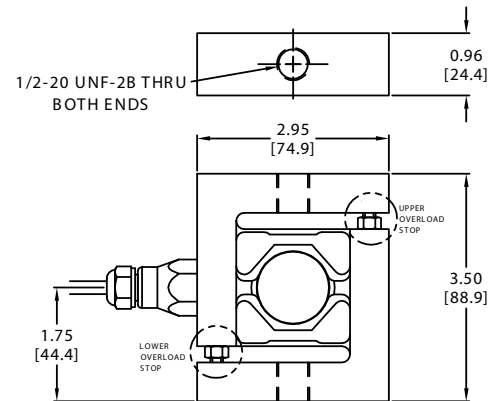


NL 0.017%FS,
HYS 0.017%FS

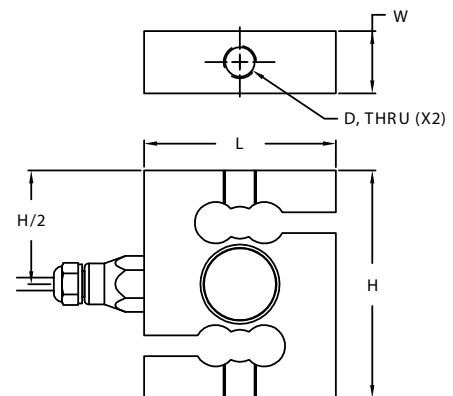
GSCH 3015



50- 200kg :



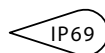
500-2000kg :



Capacity(kg)	H	L	W	THREAD - D
500	3.50[88.9]	2.96[75.2]	0.96[24.4]	1/2-20UNF
1000	3.60[91.4]	3.40[86.4]	1.18[30.0]	5/8-18 UNF
2000	3.60[91.4]	3.40[86.4]	1.18[30.0]	5/8-18 UNF



44-4409lb
[20- 2000kg]



Stainless steel



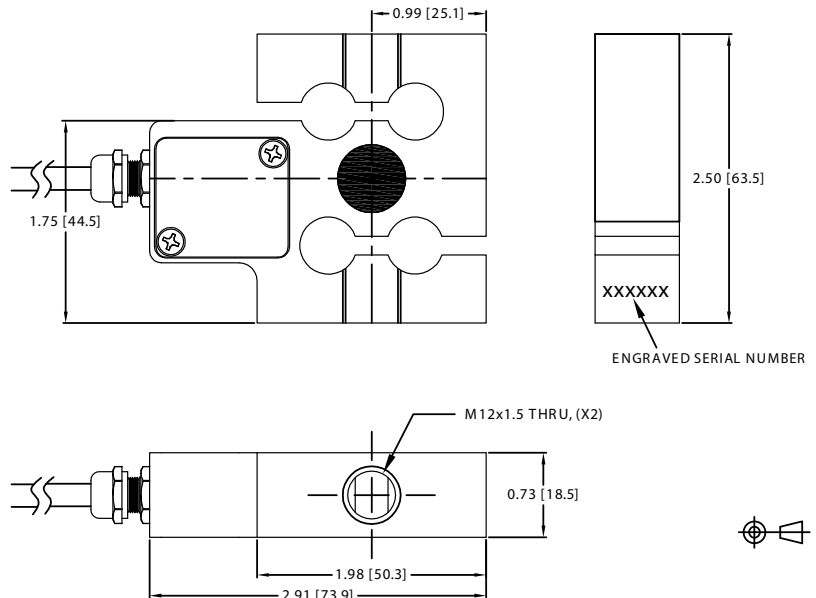
2.0 mV/V



COMBINED ERROR) 0.03%F

Digital or Wireless Output Options

GSBV 3011



50, 100, 200, 500, 1000, 1500lb
[680kg,]



Stainless steel



0-5 VDC



NL 0.02%FS,
HYS 0.02%FS

Digital or Wireless Output Options

ACCESSORIES

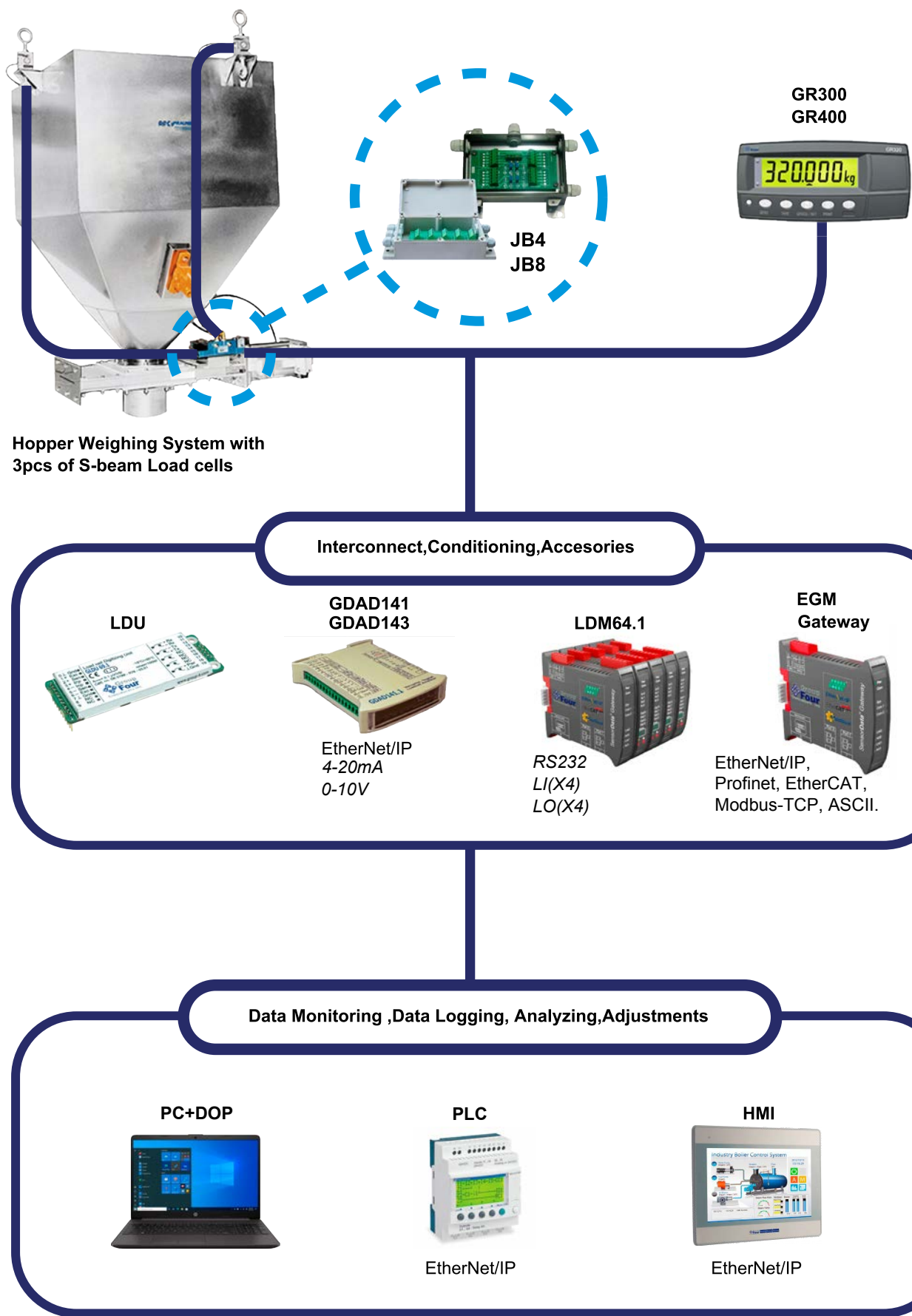
Rod end bearings



Clevises



Measurement Chain



Locations

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**Contact a Group Four Application Engineer to
Discuss Your Measurement System Today!**

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