

1200 AND 1201 SERIES IO-LINK LOAD CELL UNIVERSAL OR COMPRESSION-ONLY (U.S. & METRIC)

FEATURES & BENEFITS

Why the Interface model 1200 and 1201 Standard IO-Link Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- Eccentric load compensated
- Low deflection
- Tension and compression
- Compact size

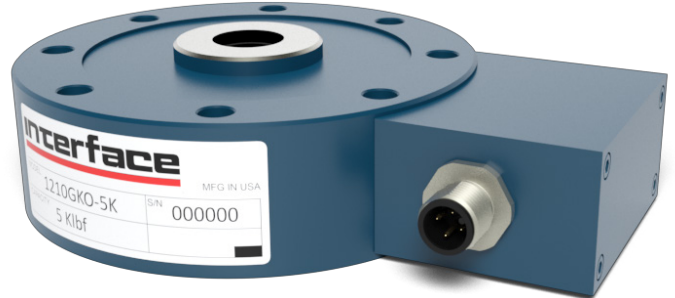
OPTIONS

- Base (recommended)
- Custom calibration
- Multiple bridge
- Special threads
- Dual diaphragm

ACCESSORIES

- Mating connector
- Mating cable
- Loading hardware

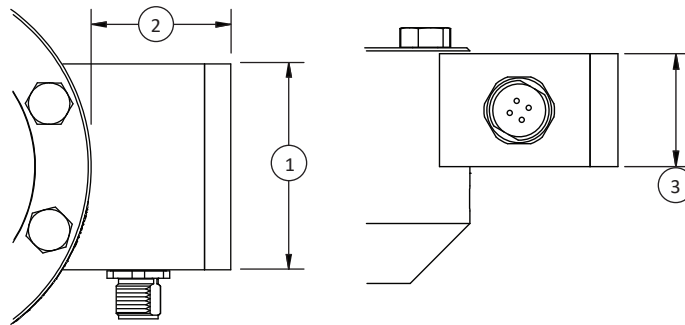
STANDARD CONFIGURATION



Model 1210GKO-5K (Shown)



Model 1211GKO-5K (Shown)



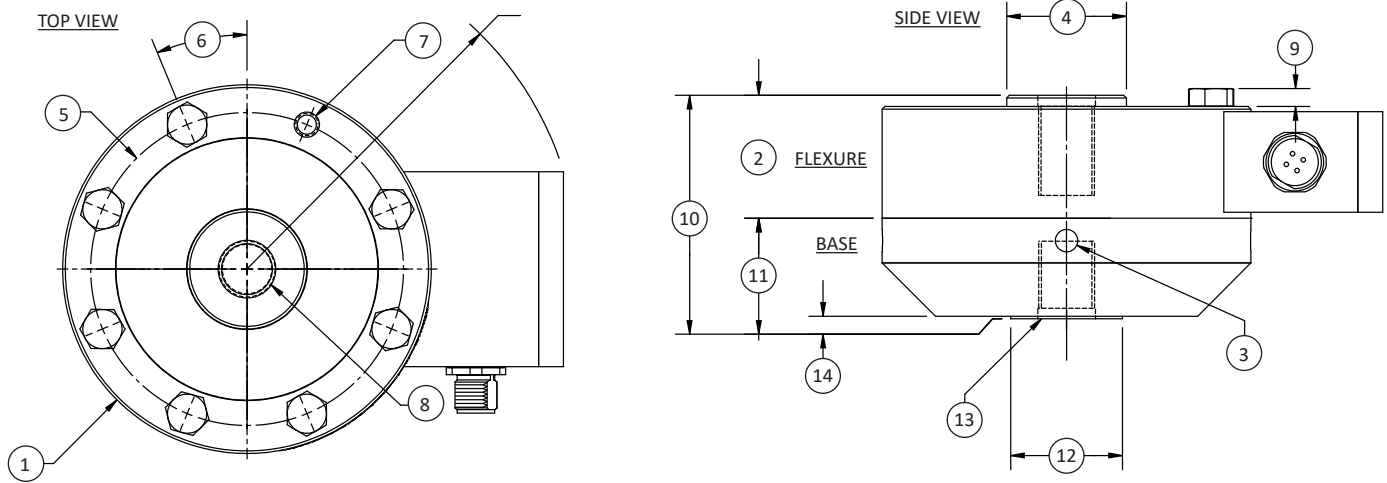
DIMENSIONS

See Drawing	IO-LINK HOUSING	
	ALL MODELS	
	ALL CAPACITIES	
	in	mm
(1)	2.18	55.4
(2)	1.48	37.6
(3)	1.13	28.6

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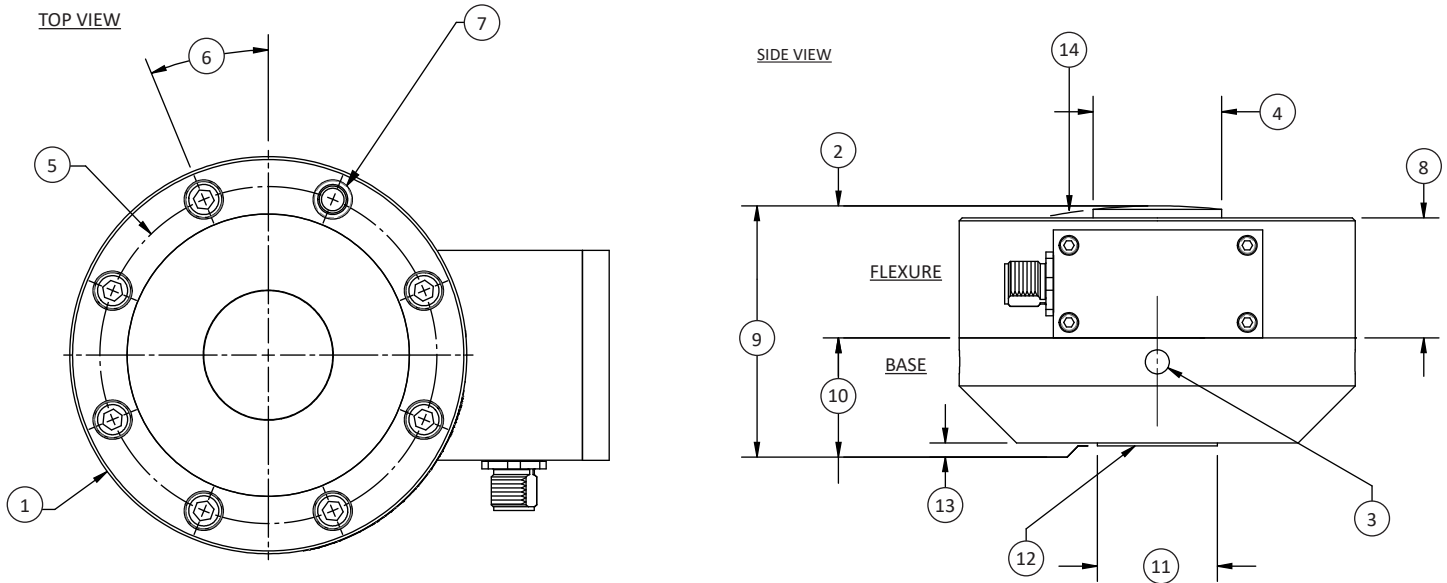
DIMENSIONS

See Drawing	MODEL					
	1210		1220		1232	
	CAPACITY					
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	300, 500, 1K, 2K, 5K, 10K,	1.5, 2.5, 5, 10, 25, 50	25K, 50K	100, 250	100K	450
	in	mm	in	mm	in	mm
(1)	Ø4.12	Ø104.7	Ø6.06	Ø153.9	Ø8.00	Ø203.2
(2)	1.38	34.9	1.75	44.5	2.50	63.5
(3)	4 x Ø0.25 ↓ 0.29	4 x Ø6.4 ↓ 7.4	4 x Ø0.31 ↓ 0.31 ES 90°	4 x Ø7.9 ↓ 7.9 ES 90°	4 x Ø0.31 ↓ 0.31 ES 90°	4 x Ø7.9 ↓ 7.9 ES 90°
(4)	Ø1.34	Ø34.0	Ø2.41	Ø61.2	Ø3.76	Ø95.5
(5)	Ø3.50	Ø88.9	Ø5.125	Ø130.18	Ø6.50	Ø165.1
(6)	22.5°		15.0°		11.25°	
(7)	8 x Ø0.28 THRU	8 x Ø7.1 THRU	12 x Ø0.41 THRU	12 x Ø10.3 THRU	16 x Ø0.53 THRU	16 x Ø13.5 THRU
(8)	¾-18 UNF-3B ↓ 1.12 ⊞ Ø% ↓ 0.12	M16 X 2-4H ↓ 28.6 ⊞ Ø16.4 ↓ 3.05	1.250-12 UNF-3B ↓ 1.40 ⊞ Ø1.27 ↓ 0.12	M33 X 2-4H ↓ 35.6 ⊞ Ø33.5 ↓ 3.0	1¾-12 UNF-3B ↓ 2.15 ⊞ Ø1.77 ↓ 0.12	M42 X 2-4H ↓ 54.6 ⊞ Ø42.5 ↓ 3.0
(9)	0.20	5.1	0.3	7.6	0.4	10.2
(10)	2.50	63.5	3.5	88.9	4.5	114.3
(11)	1.13	28.6	1.75	44.5	2.00	50.8
(12)	1.25	31.8	Ø2.25	Ø57.2	Ø3.00	Ø76.2
(13)	¾-18 UNF-3B ↓ 0.87 ⊞ Ø% ↓ 0.12	M16 X 2-4H ↓ 22.1 ⊞ Ø16.4 ↓ 3.05	1¾-12 UNF-3B ↓ 1.40 ⊞ Ø1.27 ↓ 0.12	M33 X 2-4H ↓ 35.6 ⊞ Ø33.5 ↓ 3	1¾-12 UNF-3B ↓ 1.75 ⊞ Ø1.77 ↓ 0.12	M42 X 2-4H ↓ 44.5 ⊞ Ø42.5 ↓ 3.0
(14)	0.03	0.8	0.03	0.8	0.03	0.8

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DIMENSIONS

See Drawing	MODEL							
	1211		1221		1231		1241	
	CAPACITY							
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	1K, 2K, 5K, 10K	5, 10, 25, 50	25K, 50K	125, 250	100k	450	200K	900
	in	mm	in	mm	in	mm	in	mm
(1)	Ø4.12	Ø104.7	Ø4.75	Ø120.6	Ø7.50	Ø190.4	Ø8.25	Ø209.5
(2)	1.38	34.9	1.75	44.5	2.25	57.2	3.25	82.6
(3)	4 x Ø0.25 ± 0.29	4 x Ø6.4 ± 7.4	4 x Ø0.31 ± 0.31	4 x Ø7.9 ± 7.9	4 x Ø0.31 ± 0.31	4 x Ø7.9 ± 7.9	4 X Ø0.31 ± 0.31	4 X Ø7.9 ± 7.9
(4)	Ø1.34	Ø34.0	Ø1.57	Ø39.9	Ø3.13	Ø79.4	Ø3.16	Ø80.3
(5)	Ø3.500	Ø88.90	Ø4.000	Ø101.60	Ø6.250	Ø158.75	Ø6.750	Ø171.45
(6)	22.5°		45.0°		15.0°		15.0°	
(7)	4 X Ø0.41 ± 0.25 □ Ø0.28 THRU	4 X Ø10.3 ± 6.4 □ Ø7.1 THRU	4 X Ø0.34 THRU Ø0.39 X 90°, NEAR SIDE	4 X Ø8.7 THRU Ø10.0 X 90°, NEAR SIDE	12 X Ø0.47 THRU □ Ø0.69 ± 0.438	12 X Ø11.9 THRU □ Ø17.5 ± 17.5	12 X Ø0.66 THRU □ Ø1.00 ± 0.63	12 X Ø16.7 THRU □ Ø25.4 ± 15.9
(8)	1.25	31.8	1.63	41.3	2.00	50.8	3.00	76.2
(9)	2.50	63.5	3.00	76.3	4.25	108.0	5.75	146.1
(10)	1.13	28.6	1.25	31.8	2.00	50.8	2.50	63.5
(11)	Ø1.25	Ø31.8	2.00	50.8	Ø3.00	Ø76.2	3.00	76.2
(12)	Ø $\frac{5}{16}$ -18 UNF-3B ± 0.87 □ Ø $\frac{13}{32}$ ± 0.12	M16 x 2-4H ± 22.1 □ Ø16.4 ± 3.0	Ø $\frac{1}{2}$ -20 UNF-2B ± 0.88	M16 X 2-6H ± 22.4	Ø $\frac{3}{4}$ -12 UNF-3B ± 1.75 □ Ø1.77 ± 0.12	M27 x 2-6H ± 44.5 □ Ø45.0 ± 3.0	Ø $\frac{3}{4}$ -16 UNF-3B ± 1.50 □ Ø0.77 ± 0.12	M27 x 2-6H ± 38.1
(13)	0.03	0.8	0.03	0.8	0.03	0.8	0.03	0.8
(14)	S R6.00	152.4	R6.00	152.4	R8.00	57.2	R12.00	304.8

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SPECIFICATIONS

PARAMETERS		MODEL			
UNIVERSAL		1210	1210	1220	1232
COMPRESSION-ONLY		1211	1211	1221	1231
CAPACITY					
U.S. MODELS (lbf)		300, 500, 1K, 2K	5K, 10K	25K, 50K	100K
METRIC MODELS (kN)		1.5, 2.5, 5, 10	25, 50	100, 250	450
ACCURACY – (MAX ERROR)					
Static Error Band – %FS		±0.06	±0.07	±0.07	±0.07
Nonlinearity – %FS		±0.06	±0.07	±0.07	±0.07
Hysteresis – %FS		±0.03	±0.05	±0.06	±0.06
Nonrepeatability – %RO		±0.02	±0.02	±0.02	±0.02
Creep, in 20 min – %		±0.025	±0.025	±0.025	±0.025
Side Load Sensitivity – %		±0.25	±0.25	±0.25	±0.25
Eccentric Load Sensitivity – % / in		±0.25	±0.25	±0.25	±0.25
TEMPERATURE					
Operating Range		°F	-4 to 176		
		°C	-20 to 80		
Compensated Range		°F	15 to 115	15 to 115	15 to 115
		°C	-10 to 45	-10 to 45	-10 to 45
Effect on Zero – %RO / deg		°F	±0.005	±0.003	±0.003
		°C	±0.009	±0.005	±0.005
Effect on Output – % / deg		°F	±0.005	±0.005	±0.005
		°C	±0.009	±0.009	±0.009
ELECTRICAL					
Resolution - bits		16			
Supply Voltage – VDC		24			
Sample Rate - sample/sec		66.7			
Settling Time - ms		20			
MECHANICAL					
Safe Overload – %CAP		±150	±150	±150	±150
Deflection @ RO		in	0.001	0.002	0.003
		mm	0.03	0.05	0.08
Optional Base – P/N (Metric)		B101 (M)	B102 (M)	B103 (M)	B112 (M)
Weight		lbf	1.5	3.3	9.5
		kg	0.7	1.5	4.3

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