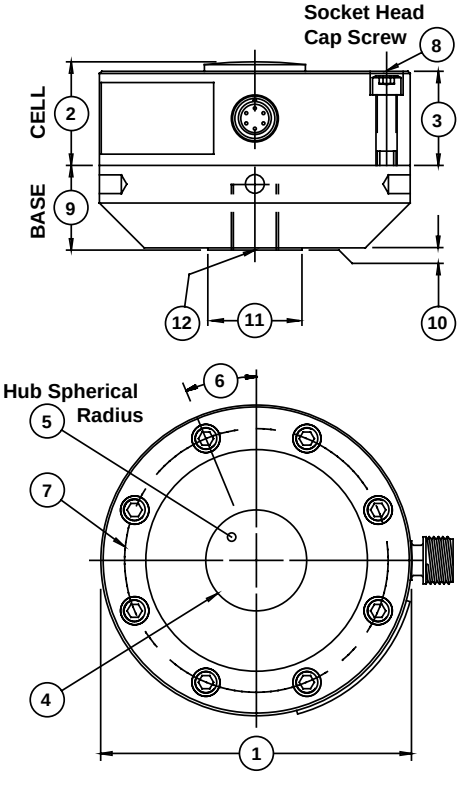
Model 1200 Precision Series Compression Only

Why INTERFACE 1200 series load cells are the best in class:

- Accuracy to 0.03%
- High output – to 4 mV/V
- Eccentric load compensated*
- .0008%/°F temp effect on output*
- Low deflection
- Shunt calibration
- Barometric compensation
- Compact size
- Counterbored mounting holes



DIMENSIONS

See Drawing	MODEL 1211		1221		1231		1241	
	CAPACITY (lbf) 1K, 2K, 5K, 10K		25K, 50K		100K		200K	
	inch	mm	inch	mm	inch	mm	inch	mm
①	4.13	104.8	4.75	120.7	7.5	190.5	8.25	210
②	1.38	34.9	1.75	44.5	2.25	57.2	3.25	82.5
③	1.25	31.7	1.63	41.4	2.00	50.8	3.00	76.2
④	1.34	34.0	1.57	39.9	3.13	79.5	3.16	80.3
⑤	6.00	152.4	6.00	152.4	8.00	203.2	12.0	304.8
⑥	22.5°	22.5°	45°	45°	15°	15°	15°	15°
⑦	3.50	88.9	4.00	101.6	6.25	158.8	6.75	171
⑧	1/4-28x1 1/4		5/16-24x1 3/4		7/16-20x2		5/8-18x3	
⑧	8 places		4 places		12 places		12 places	
⑨	1.13	28.6	1.25	31.8	2.00	50.8	2.50	63.5
⑩	0.03	0.8	0.03	0.8	0.03	0.8	0.03	0.8
⑪	1.25	31.8	2.00	50.8	3.00	76.2	3.00	76.2
⑫	5/8-18 UNF-3B		1/2-20 UNF-3B		1 3/4-12 UNF-3B		3/4-16 UNF-3B	
⑫	0.87 in. deep		0.88 in. deep		1.75 in. deep		1.50 in. deep	

INTERFACE · 7401 E. Butherus Drive, Scottsdale, AZ 85260 · (602) 948-5555 FAX (602) 948-1924
www.interfaceforce.com · E-mail: gen@interfaceforce.com · **ORDER TOLL-FREE 1-800-947-5598**

15-507
12/98

Model 1200 Precision Series
Compression Only

SPECIFICATIONS

PARAMETERS	MODEL 1211	1211	1221	1231	1241
	CAPACITY (lbf) 1K, 2K	5K, 10K	25K, 50K	100K	200K
ACCURACY – (MAX ERROR)					
Static Error Band–% FS	± 0.03	± 0.04	± 0.04	± 0.04	± 0.05
Nonlinearity–% FS	± 0.03	± 0.04	± 0.05	± 0.05	± 0.05
Hysteresis–% FS	± 0.03	± 0.04	± 0.05	± 0.05	± 0.05
Nonrepeatability–% RO	± 0.01	± 0.01	± 0.01	± 0.01	± 0.01
Creep, in 20 min–%	± 0.025	± 0.025	± 0.025	± 0.025	± 0.025
Side Load Sensitivity–%	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25
Eccentric Load Sensitivity–%/in	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25
TEMPERATURE					
Compensated Range–˚F	15 to 115	15 to 115	15 to 115	15 to 115	15 to 115
Compensated Range–˚C	-10 to 45	-10 to 45	-10 to 45	-10 to 45	-10 to 45
Operating Range–˚F	-65 to 200	-65 to 200	-65 to 200	-65 to 200	-65 to 200
Operating Range–˚C	-55 to 90	-55 to 90	-55 to 90	-55 to 90	-55 to 90
Effect on Zero–%RO/˚F – MAX	± 0.0008	± 0.0008	± 0.0008	± 0.0008	± 0.0008
Effect on Output–%/˚F – MAX	± 0.0008	± 0.0008	± 0.0008	± 0.0008	± 0.0008
ELECTRICAL					
Rated Output–mV/V (Nominal)	2.0	4.0	4.0	4.0	4.0
Nominal Excitation Voltage–VDC	10	10	10	10	10
Bridge Resistance–Ohm (Nominal)	350	350	350	350	350
Zero Balance–% RO	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Insulation Resistance–Megohm	5000	5000	5000	5000	5000
MECHANICAL					
Safe Overload–% CAP	± 150	± 150	± 150	± 150	± 150
Deflection @ RO–inch	0.001	0.002	0.002	0.003	0.004
Optional Base–P/N	B101	B102	B106	B104	B108
Natural Frequency–kHz	6.4, 9.0	6.1, 8.6	8.2, 11.7	7.6	6.7
Weight–lb	1.5	3.3	6.8	13.5	40
Connector	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P
Calibration	Compression	Compression	Compression	Compression	Compression

OPTIONS*

Base (recommended)
Compression overload protection
Integral 10 ft cable
Multiple bridge
Standardized output

ACCESSORIES*

Mating connector
Instrumentation
Loading hardware

** Please call for additional information*

Shown with optional base

INTERFACE · 7401 E. Butherus Drive, Scottsdale, AZ 85260 · (602) 948-5555 FAX (602) 948-1924
www.interfaceforce.com · E-mail: gen@interfaceforce.com · **ORDER TOLL-FREE 1-800-947-5598**