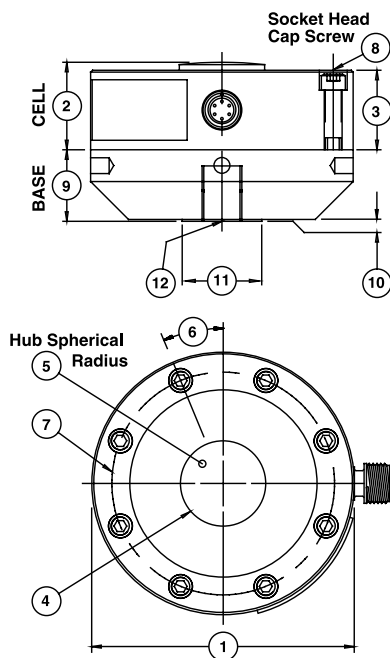


# Model 1201 Standard Load Cell Compression-Only (U.S. & Metric)

Why the Interface model 1201 Standard Load Cell Compression-Only is the best in class:

- Performance to 0.03%
- High output – to 4 mV/V
- Eccentric load compensated
- .0008%/°F (.0013%/°C) temp. effect on output
- Low deflection
- Shunt calibration
- Barometric compensation
- Compact size
- Counterbored mounting holes



## DIMENSIONS

See Drawing	MODEL									
	1211		1221		1231		1241		1243	
	CAPACITY									
	U.S. (lbf)	Metric (kN)	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	300K, 400K	1350, 1800
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
①	4.13	104.8	4.75	120.7	7.50	190.5	8.25	210	11.0	279.0
②	1.38	34.9	1.75	44.5	2.25	57.2	3.25	82.5	3.50	88.9
③	1.25	31.7	1.63	41.4	2.00	50.8	3.00	76.2	3.00	76.2
④	1.34	34.0	1.57	39.9	3.13	79.5	3.16	80.3	4.81	122.2
⑤	6.00	152.4	6.00	152.4	8.00	203.2	12.0	304.8	18.0	457
⑥	22.5°	22.5°	45.0°	45.0°	15.0°	15.0°	15.0°	15.0°	11.25°	11.25°
⑦	3.50	88.9	4.00	101.6	6.25	158.8	6.75	171.5	9.00	229
⑧	1/4-28x1 1/4 8 places		5/16-24x1 3/4 4 places		7/16-20x2 12 places		5/8-18x3 12 places		5/8-18x3.5 16 places	
⑨	1.13	28.7	1.25	31.8	2.00	50.8	2.50	63.5	3.50	88.9
⑩	0.03	0.80	0.03	0.80	0.03	0.80	0.03	0.80	0.03	0.80
⑪	1.25	31.8	2.00	50.8	3.00	76.2	3.00	76.2	4.50	114
⑫	5/8-18 UNF-3B 0.87 in deep	M16 X 2-4H 22.1 mm deep	1/2-20 UNF-3B 0.88 in deep	M16 X 2-6H 22.4 mm deep	1 3/4-12 UNF-3B 1.75 in deep	M42 X 2-4H 44.5 mm deep	3/4-16 UNF-3B 1.50 in deep	M27 X 2-4H 38.1 mm deep	1 1/2-12 UNF-2B 2.00 in deep	M42 X 2-4H 50.8 mm deep

**SPECIFICATIONS**

PARAMETERS	MODEL					
	1211	1211	1221	1231	1241	1243
	CAPACITY					
U.S. Models (lbf)	1K, 2K	5K, 10K	25K, 50K	100K	200K	300K, 400K
Metric Models (kN)	5, 10	25, 50	125, 250	450	900	1350, 1800
<b>ACCURACY – (MAX ERROR)</b>						
Static Error Band-% FS	±0.03	±0.04	±0.04	±0.04	±0.05	±0.05
Nonlinearity-% FS	±0.03	±0.04	±0.05	±0.05	±0.05	±0.05
Hysteresis-% FS	±0.03	±0.04	±0.05	±0.05	±0.05	±0.05
Nonrepeatability-% RO	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Creep, in 20 min-%	±0.025	±0.025	±0.025	±0.025	±0.025	±0.025
Side Load Sensitivity-%	±0.25	±0.25	±0.25	±0.25	±0.25	±0.25
Eccentric Load Sensitivity-%/in	±0.25	±0.25	±0.25	±0.25	±0.25	±0.25
<b>TEMPERATURE</b>						
Compensated Range-°F	15 to 115	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	-10 to 45
Operating Range-°F	-65 to 200	-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	-55 to 90
Effect on Zero-%RO/°F – MAX	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008
Effect on Zero-%RO/°C – MAX	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015
Effect on Output-%/°F – MAX	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008
Effect on Output-%/°C – MAX	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015
<b>ELECTRICAL</b>						
Rated Output-mV/V (Nominal)	2.0	4.0	4.0	4.0	4.0	4.0
Excitation Voltage-VDC – MAX	20	20	20	20	20	20
Bridge Resistance-Ohm (Nominal)	350	350	350	350	350	350
Zero Balance-% RO	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
Insulation Resistance-Megohm	5000	5000	5000	5000	5000	5000
<b>MECHANICAL</b>						
Safe Overload-% CAP	±150	±150	±150	±150	±150	±150
Deflection @ RO-inch	0.001	0.002	0.002	0.003	0.004	0.005
Deflection @ RO-mm	0.03	0.05	0.05	0.08	0.10	0.13
Optional Base-P/N	B101	B102	B106	B104	B108	B124
Natural Frequency-kHz	6.4, 9.0	6.1, 8.6	8.2, 11.7	7.6	6.7	5.0
Weight-lb	1.5	3.3	6.8	13.5	40	74
Weight-kg	0.7	1.5	3.1	6	18	34
Connector	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P
Calibration	Compression	Compression	Compression	Compression	Compression	Compression

**OPTIONS\* Page 169**

- Base (Recommended)
- Compression Overload Protection
- Integral 10 ft Cable
- Bayonet Connector
- Multiple Bridge
- Standardized Output
- Connector Protection
- See Transducer Electronic Data Sheet (TEDS) Page 149

**STANDARD CONFIGURATIONS**

- 10 ft Integral Cable (12xxEX-nn)
- <or> PC04E-10-6P Standard Connector (12xxHL-nn)
- <or> PT02E-10-6P Bayonet Connector (12xxBAY-nn)
- Installed Base (-B suffix)
- Counterbored Mounting Holes Except 1243

**ACCESSORIES\* Page 172**

- Mating Connector
- Instrumentation
- Loading Hardware

\*See appendix for more technical information



Shown with optional base