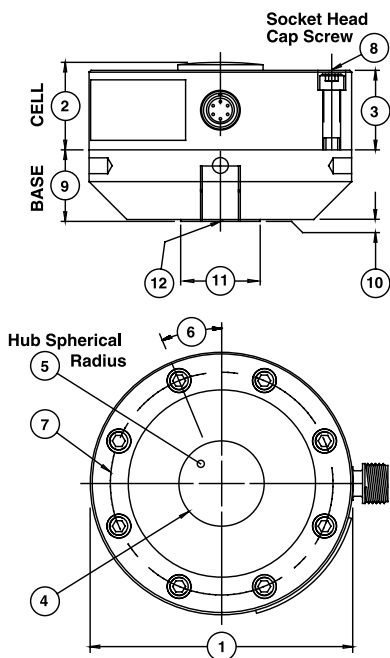


# Model 1201 Standard Load Cell Compression-Only (U.S. & Metric)

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		5/16-24x1 3/4		7/16-20x2		5/8-18x3		5/8-18x3.5	
	8 places		4 places		12 places		12 places		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	M16 X 2-4H	1/2-20 UNF-3B	M16 X 2-6H	1 3/4-12 UNF-3B	M42 X 2-4H	3/4-16 UNF-3B	M27 X 2-4H	1 1/2-12 UNF-2B	M42 X 2-4H
	0.87 in deep	22.1 mm deep	0.88 in deep	22.4 mm deep	1.75 in deep	44.5 mm deep	1.50 in deep	38.1 mm deep	2.00 in deep	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	3.0, 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

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

### 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

Mating Connector  
 Instrumentation  
 Loading Hardware

*Consult factory for more technical information*



*Shown with optional base*