

# Model 1200 Standard High Capacity Load Cell (U.S. & Metric)

Why the Interface model 1200 Standard High Capacity Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- Performance to .07%
- High output – to 4 mV/V
- Eccentric Load compensated
- .0008%/°F (.0015%/°C) temp. effect on output
- Low deflection
- Shunt calibration
- Barometric compensation
- Tension and compression
- Compact size

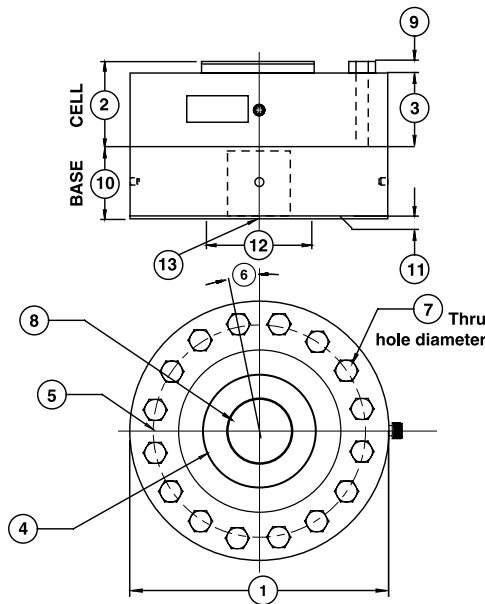


Shown with optional base

## DIMENSIONS

See Drawing	MODEL											
	1240		1244		1250		1260		1280		1290	
	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)	U.S. (lbf)	Metric (kN)
	200K	900	270K	1200	400K	1800	600K	2700	1000K	4500	2000K	9000
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
①	11.0	279.0	11.0	279.0	12.0	304.8	15.5	393.7	20.50	520.7	26.00	660.4
②	3.50	88.9	4.00	101.6	4.50	114.3	5.50	139.7	6.25	158.8	7.75	196.9
③	3.00	76.2	3.25	82.6	4.25	108.0	5.00	203.2	6.00	152.4	7.50	190.5
④	4.81	122.2	4.81	122.2	5.68	144.3	7.73	196.3	10.55	267.9	13.79	350.3
⑤	9.00	228.6	8.75	222.2	9.50	241.3	12.68	322.1	16.5	419.1	20.50	520.7
⑥	11.25°	11.25°	11.25°	11.25°	9.00°	9.00°	7.50°	7.50°	6.43°	6.43°	5.63°	5.63°
⑦	0.65	16.5	0.79	20.1	0.79	20.1	0.94	23.9	1.06	27.0	1.31	33.3
	16 places		16 places		20 places		24 places		28 places		32 places	
⑧	2 3/4-8 UNF-3B	M72 X 2-4H	2 3/4-8 UNF-3B	M72 X 2-4H	3 1/2-8 UN-3B	M90 X 3-4H	4 1/4-8 UN-3B	M120 X 4-4H	6.00-8 UN-3B	M150 X 4-4H	8.00-8 UN-3B	M200 X 4-4H
	3.25 in deep	82.6mm deep	3.75 in deep	95.3mm deep	3.75 in deep	95.3mm deep	4.25 in deep	108.0mm deep	5.63 in deep	130mm deep	7.00 in deep	178mm deep
⑨	0.50	12.7	0.50	12.7	0.59	15.0	0.69	17.5	1.00	25.4	1.25	31.3
⑩	3.00	76.2	4.00	101.6	4.50	114.3	5.00	127.0	7.00	177.8	9.00	228.6
⑪	0.03	0.80	0.03	0.80	0.03	0.80	0.03	0.80	0.03	0.80	0.10	2.5
⑫	4.50	114.3	4.50	114.3	6.00	152.4	7.75	196.9	10.55	267.9	14.00	355.6
⑬	2 3/4-8 UNF-3B	M72 X 2-4H	2 3/4-8 UNF-3B	M72 X 2-4H	3 1/2-8 UN-3B	M90 X 3-4H	4 1/4-8 UN-3B	M120 X 4-4H	6.00-8 UN-3B	M150 X 4-4H	8.00-8 UN-3B	M200 X 4-4H
	2.75 in deep	69.8mm deep	2.75 in deep	69.8mm deep	3.75 in deep	95.3mm deep	4.25 in deep	108.0mm deep	6.38 in deep	162mm deep	7.25 in deep	184mm deep

Specifications subject to change. Call factory for additional information on the 1250 and 1260.



**SPECIFICATIONS**

PARAMETERS	MODEL					
	1240	1244	1250	1260	1280	1290
	CAPACITY					
U.S. Models (lbf)	200K	270K	400K	600K	1000K	2000K
Metric Models (kN)	900	1200	1800	2700	4500	9000
<b>ACCURACY – (MAX ERROR)</b>						
Static Error Band-% FS	±0.07	±0.07	±0.12	±0.12	±0.15	±0.20
Nonlinearity-% FS	±0.07	±0.08	±0.12	±0.12	±0.15	±0.20
Hysteresis-% FS	±0.07	±0.08	±0.12	±0.12	±0.15	±0.20
Nonrepeatability-% RO	±0.01	±0.02	±0.02	±0.02	±0.02	±0.02
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	±0.50
<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)	4.0	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	0.005	0.006	0.007	0.008	0.008	0.010
Deflection @ RO-mm	0.13	0.15	0.18	0.2	0.2	0.25
Optional Base-P/N (Metric)	B105 (M)	B116 (M)	B121 (M)	B122 (M)	B123 (M)	B125 (M)
Natural Frequency-kHz	4.9	5.0	5.5	5.5	5.5	5.5
Weight-lb	68	70	100	200	450	860
Weight-kg	30.9	31.8	45	90	205	390
Connector	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P
Calibration	T & C	T & C	T & C	T & C	T & C	T & C

**OPTIONS**

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

**STANDARD CONFIGURATIONS**

10 ft Integral Cable (12xxAJ-nn)  
 <or> PC04E-10-6P Standard Connector (12xxAF-nn)  
 <or> PT02E-10-6P Bayonet Connector (12xxCDS-nn)  
 Installed Base (-B suffix)

\*\*Calibrated to 1000K Only

**ACCESSORIES**

Mating Connector  
 Instrumentation  
 Loading Hardware

Consult factory for more technical information