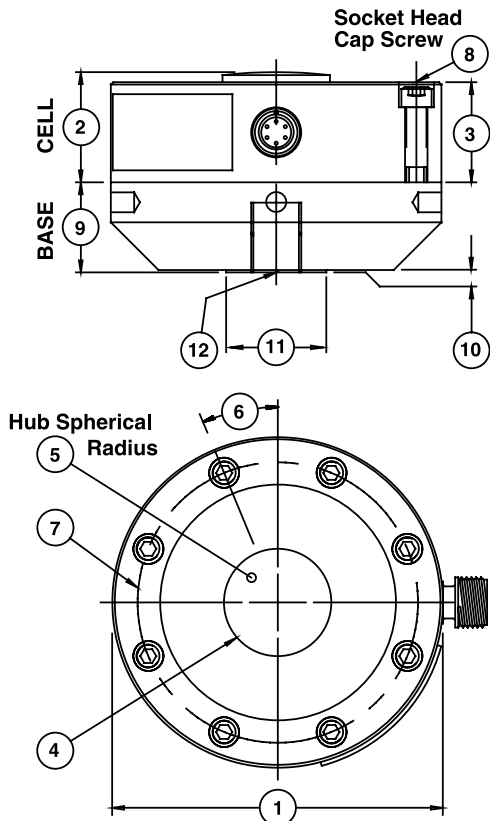


# Model 1101 Ultra Precision Compression-Only Load Cell (U.S. & Metric)

Why the Interface model 1101 Ultra Precision Compression-Only Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- Performance to .02%
- High output – to 4 mV/V
- Eccentric load compensated
- Low deflection
- .0008%/°F (.0015%/°C) temp. effect on output
- Shunt calibration
- High precision base included
- Barometric compensation



## DIMENSIONS

See Drawing	MODEL			
	1111		1121	
	CAPACITY			
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	1K, 2K, 5K, 10K	5, 10, 25, 50	25K 50K	100 250
	inch	mm	inch	mm
①	4.13	104.8	6.06	153.9
②	1.38	34.9	1.75	44.5
③	1.25	31.7	1.63	41.4
④	1.34	34.0	2.65	67.3
⑤	6.00	152.4	8.00	203.2
⑥	22.5°	22.5°	15.0°	15.0°
⑦	3.50	88.9	5.13	130.3
⑧	8 places		12 places	
⑨	1.13	28.7	1.75	44.5
⑩	0.03	0.80	0.03	0.80
⑪	1.25	31.8	2.25	57.2
⑫	5/8-18 UNF-3B	M-16 X 2-4H	1 1/4-12 UNF-3B	M33 X 2-4H
	.87 in deep	22.1 mm deep	1.40 in deep	35.6 mm deep

## SPECIFICATIONS

PARAMETERS	MODEL		
	1111	1111	1121
	CAPACITY		
U.S. Models (lbf)	1K, 2K	5K, 10K	25K, 50K
Metric Models (kN)	5, 10	25, 50	100, 250
<b>ACCURACY – (MAX ERROR)</b>			
Static Error Band-% FS	±0.02	±0.03	±0.03
Nonlinearity-% FS	±0.03	±0.04	±0.04
Hysteresis-% FS	±0.02	±0.04	±0.04
Nonrepeatability-% RO	±0.01	±0.01	±0.01
Creep, in 20 min-%	±0.025	±0.025	±0.025
Side Load Sensitivity-%	±0.1	±0.1	±0.1
Eccentric Load Sensitivity-%/in	±0.1	±0.1	±0.1
<b>TEMPERATURE</b>			
Compensated Range-°F	15 to 115	15 to 115	15 to 115
Compensated Range-°C	-10 to 45	-10 to 45	-10 to 45
Operating Range-°F	-65 to 200	-65 to 200	-65 to 200
Operating Range-°C	-55 to 90	-55 to 90	-55 to 90
Effect on Zero-%RO/°F – MAX	±0.0004	±0.0004	±0.0004
Effect on Zero-%RO/°C – MAX	±0.0007	±0.0007	±0.0007
Effect on Output-%/°F – MAX	±0.0008	±0.0008	±0.0008
Effect on Output-%/°C – MAX	±0.0015	±0.0015	±0.0015
<b>ELECTRICAL</b>			
Rated Output-mV/V (Nominal)	2.0	4.0	4.0
Excitation Voltage-VDC MAX	20	20	20
Bridge Resistance-Ohm (Nominal)	350	350	350
Zero Balance-% RO	±1.0	±1.0	±1.0
Insulation Resistance-Megohm	5000	5000	5000
<b>MECHANICAL</b>			
Safe Overload-% CAP	±150	±150	±150
Deflection @ RO-inch	0.002	0.004	0.004
Deflection @ RO-mm	0.05	0.10	0.10
Base Part Number (Ref)	B101	B102	B103
Natural Frequency-kHz	4.5, 6.4	4.3, 6.1	4.1, 4.6
Weight-lb	3.3	7.3	21.5
Weight-kg	1.5	3.3	9.8
Connector	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P
Calibration	Compression	Compression	Compression

### OPTIONS

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

### STANDARD CONFIGURATIONS

10 ft Integral Cable (11xxEX-nn)  
 <or> PC04E-10-6P Connector (11xxHL-nn)  
 <or> PTO2E-10-6P Bayonet Connector (11xxBAY-nn)

### ACCESSORIES

Mating Connector  
 Instrumentation  
 Loading Hardware