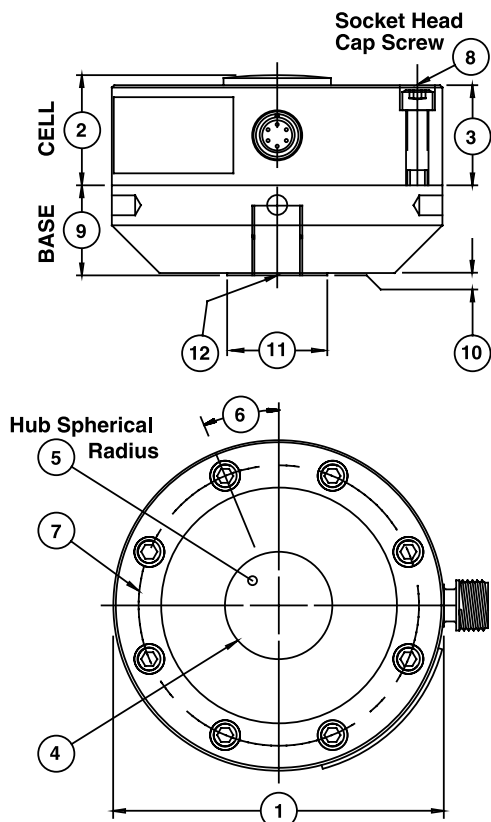


Model 1101 Ultra Precision Compression-Only Load Cell (U.S. & Metric)

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 |
| ACCURACY – (MAX ERROR) | | | |
| 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 |
| TEMPERATURE | | | |
| 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 |
| ELECTRICAL | | | |
| 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 |
| MECHANICAL | | | |
| 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

Consult factory for more technical information