

# INTERFACE

## Model SSM Series (U.S. & Metric)

Why INTERFACE SSM load cells are the best in class:

- Proprietary Interface temperature compensated strain gages
- Environmentally sealed
- .02% nonrepeatability
- Low moment sensitivity
- .0008%/°F (.0015%/°C) temp effect on output
- .025% creep
- Tension and compression



### SPECIFICATIONS

#### ACCURACY – (MAX ERROR)

|                       |        |
|-----------------------|--------|
| Nonlinearity-% FS     | ±0.05  |
| Hysteresis-% FS       | ±0.03  |
| Nonrepeatability-% RO | ±0.02  |
| Creep, in 20 min.-%   | ±0.025 |

#### TEMPERATURE

|                              |            |
|------------------------------|------------|
| Compensated Range-°F         | 0 to 150   |
| Compensated Range-°C         | -15 to 65  |
| Operating Range-°F           | -65 to 200 |
| Operating Range-°C           | -55 to 90  |
| Effect on Output-%/°F – MAX  | ±0.0008    |
| Effect on Output-%/°C – MAX  | ±0.0015    |
| Effect on Zero-% RO/°F – MAX | ±0.0015    |
| Effect on Zero-% RO/°C – MAX | ±0.0027    |

#### ELECTRICAL

|                                 |        |
|---------------------------------|--------|
| Rated Output-mV/V (Nominal)     | 3      |
| Zero Balance-% RO               | ±1     |
| Bridge Resistance-Ohm (Nominal) | 350    |
| Excitation Voltage – MAX        | 15 VDC |
| Insulation Resistance-Megohm    | >5000  |

#### MECHANICAL

|                     |         |
|---------------------|---------|
| Calibration         | Tension |
| Safe Overload-% CAP | 150     |
| Cable length-ft     | 10      |

#### Natural Frequency/Deflection:

| lbf  | N    | Deflection (inches) | Nat. Freq. (Hertz) |
|------|------|---------------------|--------------------|
| 50   | 200  | .003                | 1500               |
| 100  | 500  | .004                | 1850               |
| 250  | 1000 | .006                | 2350               |
| 500  | 2kN  | .005                | 2150               |
| 750  | n/a  | .005                | 2350               |
| 1000 | 5kN  | .005                | 3350               |
| 2000 | 10kN | .005                | 2400               |
| 3000 | n/a  | .005                | 3000               |
| 5000 | 20kN | .005                | 2520               |

### STANDARD CONFIGURATION

- 10 Ft Integral Cable (SSM-AJ-nn)
- <or> PC04E-10-6P Standard Connector (SSM-AF-nn)  
(Connector available only in 500-5K16F capacities)

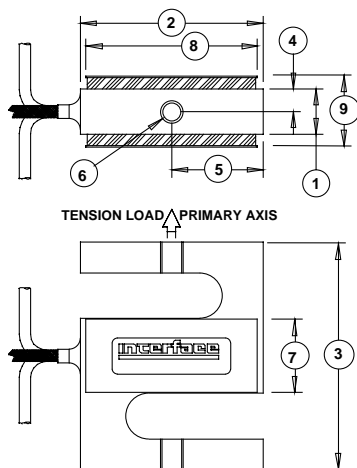
### OPTIONS\*

- PC04E-10-6P connector (SSM-500 and above)
- LEMO connector
- Standardized output
- High temperature
- Extra cable length

### ACCESSORIES\*

- Load button
- Instrumentation
- Mounting hardware

\* See appendix for more technical information



### DIMENSIONS

| See Drawing | CAPACITY      |            |               |            |               |             |               |               |               |             |
|-------------|---------------|------------|---------------|------------|---------------|-------------|---------------|---------------|---------------|-------------|
|             | U.S. (lbf)    | Metric (N) | U.S. (lbf)    | Metric (N) | U.S. (lbf)    | Metric (kN) | U.S. (lbf)    | Metric (kN)   | U.S. (lbf)    | Metric (kN) |
|             | inch          | mm         | inch          | mm         | inch          | mm          | inch          | mm            | inch          | mm          |
| ①           | 0.50          | 12.7       | 0.50          | 12.7       | 0.50          | 12.7        | 1.00          | 25.4          | 1.50          | 38.1        |
| ②           | 2.00          | 50.8       | 2.00          | 50.8       | 2.00          | 50.8        | 2.00          | 50.8          | 2.50          | 63.5        |
| ③           | 2.50          | 63.5       | 2.50          | 63.5       | 2.50          | 63.5        | 3.00          | 76.2          | 3.50          | 88.9        |
| ④           | 0.25          | 6.40       | 0.25          | 6.40       | 0.25          | 6.40        | 0.50          | 12.7          | 0.75          | 19.1        |
| ⑤           | 1.00          | 25.4       | 1.00          | 25.4       | 1.00          | 25.4        | 1.00          | 25.4          | 1.25          | 31.8        |
| ⑥           | 1/4-28 UNF-2B | M6 x 1-6H  | 1/4-28 UNF-2B | M6 x 1-6H  | 1/4-28 UNF-2B | M6 x 1-6H   | 1/2-20 UNF-2B | M12 x 1.75-6H | 5/8-18 UNF-2B | M16 x 2-6H  |
| ⑦           | 0.80          | 20.3       | 0.70          | 17.8       | 0.80          | 20.3        | 0.80          | 20.3          | 0.84          | 21.3        |
| ⑧           | 1.88          | 47.8       | 1.88          | 47.8       | 1.88          | 47.8        | 1.88          | 47.8          | 2.38          | 60.5        |
| ⑨           | 0.80          | 20.3       | 0.76          | 19.3       | 0.76          | 19.3        | 1.25          | 31.8          | 1.68          | 42.7        |