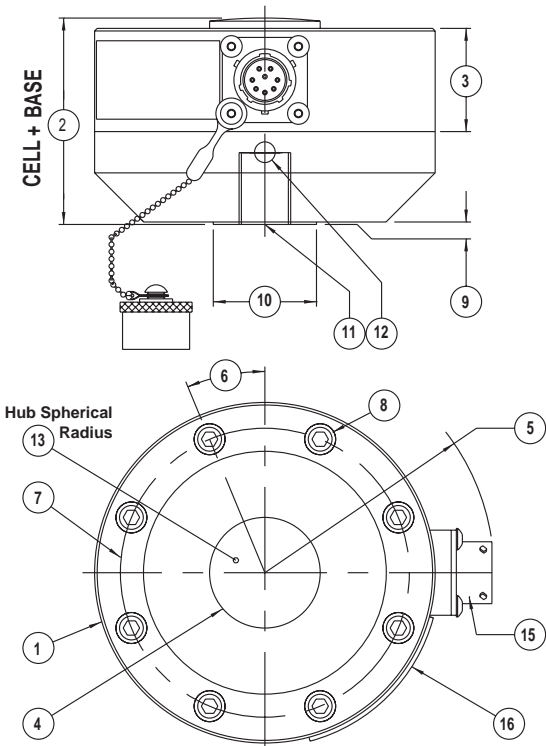


# INTERFACE

## Model 1600 Gold Standard™ Series Compression Only

Why INTERFACE 1600 series load cells are the best in class:

- .005% nonrepeatability
- .01% creep
- High output – to 4mV/V
- High precision base installed
- 3 run NIST traceable calibration
- Eccentric load compensated
- .0008%/°F temp effect on output
- 4% lower load limit



### DIMENSIONS

See Drawing	MODEL					
	1611		1621		1633	
	CAPACITY (lbf)					
	1K, 2K, 5K, 10K		25K, 50K		100K	
	inch	mm	inch	mm	inch	mm
①	4.13	104.8	6.06	153.9	8.00	203.2
②	2.51	63.50	3.50	89.0	4.50	114.3
③	1.25	31.7	1.63	41.4	2.25	57.2
④	1.34	34.0	2.41	61.2	3.76	95.5
⑤	2.78	70.0	3.50	89.0	4.47	113.0
⑥	22.50°	22.50°	15.00°	15.00°	11.25°	11.25°
⑦	3.50	88.9	5.13	130.3	6.50	165.1
⑧	8 SHCS		12 SHCS		16 HHCS	
⑨	0.03	0.85	0.03	0.80	0.03	0.80
⑩	1.25	31.8	2.25	57.2	3.00	76.2
⑪	5/8-18 UNF-3B 0.87 in deep		1 1/4-12 UNF-3B 1.40 in deep		1 3/4-12 UNF-3B 1.75 in deep	
⑫	PT02E-12-8P		PT02E-12-8P		PT02E-12-8P	
⑬	6.00	152.0	8.00	203.0	12.0	305.0

## SPECIFICATIONS

PARAMETERS	MODEL				
	1611	1611	1611	1621	1633
	CAPACITY (lbf)				
	1K	2K	5K, 10K	25K, 50K	100K
<b>ACCURACY – (MAX ERROR)</b>					
Static Error Band-% FS	± 0.02	± 0.02	± 0.025	± 0.03	± 0.04
Nonlinearity-% FS	± 0.03	± 0.03	± 0.04	± 0.04	± 0.04
Hysteresis-% FS	± 0.02	± 0.02	± 0.04	± 0.04	± 0.05
Nonrepeatability-% RO	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005
Creep, 20 min.-%	± 0.01	± 0.01	± 0.01	± 0.01	± 0.01
Side Load Sensitivity-%	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
Eccentric Load Sensitivity-%/in	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
Lower Load Limit-% Cap. (ASTM E74 CLASS A)	4.0	4.0	4.0	4.0	4.0
<b>TEMPERATURE</b>					
Compensated Range-°F	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 115
Operating Range-°F	-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
Effect on Zero-%RO/°F – MAX	± 0.0004	± 0.0004	± 0.0004	± 0.0004	± 0.0004
Effect on Output-%/°F – MAX	± 0.0008	± 0.0008	± 0.0008	± 0.0008	± 0.0008
<b>ELECTRICAL</b>					
Rated Output-mV/V (Nominal)	2.0	2.0	4.0	4.0	4.0
Excitation Voltage-VDC – MAX	20	20	20	20	20
Bridge Resistance-Ohm (Nominal)	350	350	350	350	350
Zero Balance-% RO	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Insulation Resistance-Megohm	5000	5000	5000	5000	5000
<b>MECHANICAL</b>					
Safe Overload-% CAP	± 150	± 150	± 150	± 150	± 150
Deflection @ RO-inch	0.002	0.002	0.004	0.004	0.006
Weight-lb	3.3	3.3	7.5	21.5	52
Connector	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P
Calibration	Compression	Compression	Compression	Compression	Compression

### OPTIONS\*

Compression overload protection  
 Multiple bridge  
 Standardized output  
 ASTM E74 calibration  
 Connector protection  
 See Low Profile Options Catalog Page 89

### STANDARD CONFIGURATIONS

• PT02E-12-8P Connector (16xxAJH-nn)

### ACCESSORIES\*

Precision mV/V transfer standard  
 Instrument cable assemblies  
 Signal conditioning boards  
 Calibration software

\* See appendix for more technical information