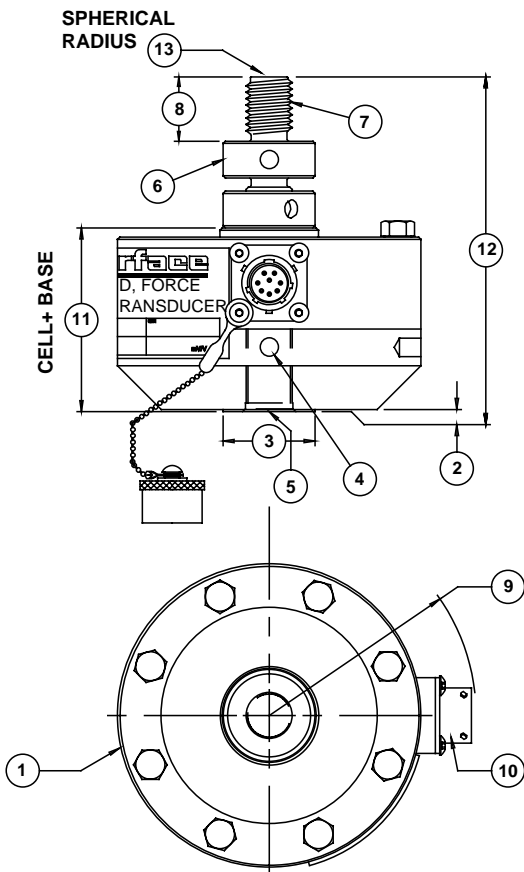


INTERFACE

Model 1600 Gold Standard™ Calibration Series Universal

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

- Tension and compression in one unit
- .005% nonrepeatability
- .01% creep
- High output – to 4mV/V
- High precision base installed
- 3 run NIST traceable calibration
- Factory installed Calibration Adapter
- Eccentric load compensated
- .0008%/°F temp effect on output
- 4% lower load limit per ASTM E74



DIMENSIONS

See Drawing	MODEL					
	1610		1620		1632	
	CAPACITY (lbf)					
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	500, 1K, 2K, 5K, 10K	2.2, 4.5, 9, 22, 45	25K, 50K	110, 225	100K	450
	inch	mm	inch	mm	inch	mm
①	4.13	104.8	6.06	153.9	8.00	203.2
②	0.03	0.80	0.03	0.80	0.03	0.80
③	1.25	31.8	2.25	57.2	3.00	76.2
④	0.25	6.40	0.31	7.90	0.31	7.90
	0.29 deep	7.4 deep	0.31 deep	7.9 deep	0.31 deep	7.9 deep
⑤	5/8-18 UNF-3B	M16x2-4H	1 1/4-12 UNF-3B	M33x2-4H	1 3/4-12 UNF-3B	M42x2-4H
	0.87 deep	22.1 deep	1.50 deep	38.1 deep	1.75 deep	44.45 deep
⑥	CA-101	CA-201	CA-102	CA-202	CA103	CA-203
⑦	5/8-18 UNF-3A	M16x2-4H	1 1/4-12 UNF-3A	M33x2-4H	1 3/4-12 UNF-3A	M42x2-4H
⑧	0.75	19.1	1.50	38.1	2.00	50.8
⑨	2.81	71.4	3.50	88.9	4.50	114.3
⑩	PT02E-12-8P		PT02E-12-8P		PT02E-12-8P	
⑪	2.50	63.5	3.50	88.9	4.50	114.3
⑫	4.38 ±.12	111.3 ±3.1	6.38 ±.12	162.1 ±3.1	8.62 ±.12	218.9 ±3.1
⑬	6.00	152.0	6.00	152.0	12.0	305.0

SPECIFICATIONS

PARAMETERS	MODEL				
	1610	1610	1610	1620	1632
	CAPACITY (lbf)				
U.S. Models (lbf) Metric Models (kN)	500 2.2	1K, 2K 4.5, 9	5K, 10K 22, 45	25K, 50K 110, 225	100K 450
ACCURACY – (MAX ERROR)					
Static Error Band–% FS	± 0.02	± 0.02	± 0.025	± 0.03	± 0.05
Nonlinearity–% FS	± 0.03	± 0.03	± 0.04	± 0.04	± 0.05
Hysteresis–% FS	± 0.02	± 0.02	± 0.04	± 0.05	± 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
TEMPERATURE					
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 45
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
ELECTRICAL					
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
MECHANICAL					
Safe Overload–% CAP	± 150	± 150	± 150	± 150	± 150
Deflection @ RO–inch	0.002	0.002	0.004	0.004	0.006
Weight–lb	3.8	3.8	8.0	23.5	58
Connector	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P
Calibration	T & C	T & C	T & C	T & C	T & C

OPTIONS*

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

STANDARD CONFIGURATIONS

- PT02E-12-8 Connector (16xxAJH-nn)

ACCESSORIES*

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

* See appendix for more technical information