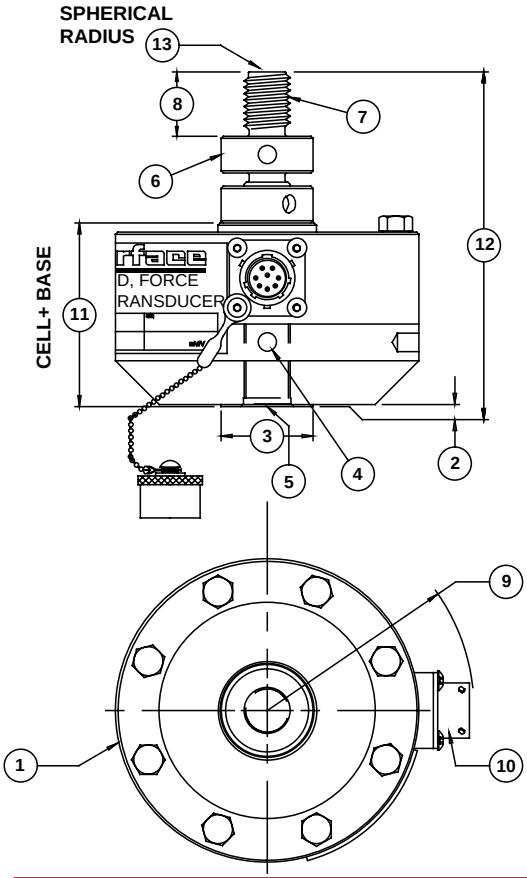
Model 1600 Gold Standard™ Series Universal

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
- Internal electronic ID
- Factory installed Calibration Adapter
- Eccentric load compensated
- .0008%/°F temp effect on output



DIMENSIONS

See Drawing	MODEL 1610		1620		1632	
	CAPACITY (lbf) 500, 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	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
④	0.29 deep	7.4 deep	0.31 deep	7.9 deep	0.31 deep	7.9 deep
⑤	5/8-18 UNF-3B		1 1/4-12 UNF-3B		1 3/4-12 UNF-3B	
⑤	0.87 deep		1.50 deep		1.75 deep	
⑥	CA-101		CA-102		CA103	
⑦	5/8-18 UNF-3A		1 1/4-12 UNF-3A		1 3/4-12 UNF-3A	
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	PTO2E-12-8P		PTO2E-12-8P		PTO2E-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

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15-512
05/00

SPECIFICATIONS

PARAMETERS	MODEL 1610	1610	1610	1620	1632
	CAPACITY (lbf) 500	1 K, 2K	5K,10K	25K, 50K	100K
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 to115	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	PTO2E-12-8	PTO2E-12-8	PTO2E-12-8	PTO2E-12-8	PTO2E-12-8
Calibration	T & C	T & C	T & C	T & C	T & C

OPTIONS*

Compression overload protection
Multiple bridge
Standardized output
ASTM E74 calibration
Connector protection

ACCESSORIES*

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

* *See appendix for more technical information*

STANDARD CONFIGURATIONS

• PT02E-12-8 Connector (16xxAJH-nn)

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