

Model 1800 Platinum™ Calibration Series Universal



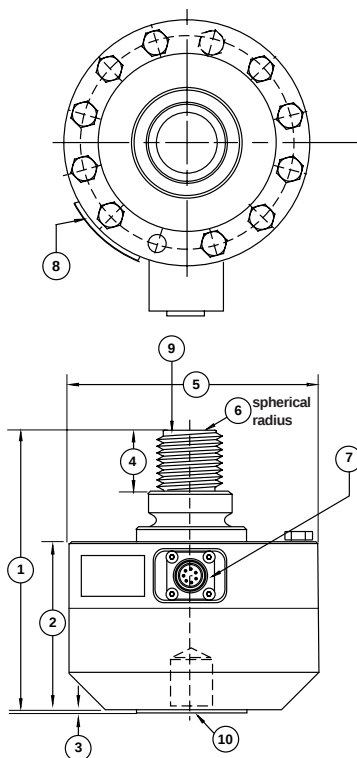
Why INTERFACE Platinum series load cells are the best in class:

- Handcrafted excellence for the most demanding calibration requirements
- Tension and compression in one unit
- .005% nonrepeatability
- 2% lower load limit per ASTM E74
- High precision base installed
- ASTM E74 calibration standard
- Internal electronic ID
- Eccentric load compensated
- .0008%/°F temp effect on output
- Connector protector standard



Shown with optional female thread.

Additional capacities available, call factory for details



DIMENSIONS

See Drawing	MODEL					
	1810		1820		1830	
	CAPACITY (lbf)					
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	5.5K	25	11K, 22K	50, 100	55K	250
	inch	mm	inch	mm	inch	mm
①	5.00	127.0	6.85	174.0	8.50	215.9
②	3.28	83.3	4.13	104.9	5.00	127.0
③	0.03	0.8	0.03	0.8	0.03	0.8
④	0.75	19.1	1.50	38.1	1.88	47.6
⑤	4.13	104.9	6.06	154.0	8.00	203.2
⑥	6.00	152.4	6.00	152.4	8.00	203.2
⑦	PT02E-12-8P					
⑧	Identification Label					
⑨	5/8-18 UNF-3A	M16x2-4h	1 1/4-12 UNF-3A	M33x2-4h	1 3/4-12 UNF-3A	M42x2-4h
⑩	5/8-18 UNF-3B	M16x2-4H	1 1/4-12 UNF-3B	M33x2-4H	1 3/4-12 UNF-3B	M42x2-4H
	0.75 deep	19.05	1.50 deep	38.1	2.00 deep	50.8

SPECIFICATIONS

PARAMETERS	MODEL		
	1810	1820	1830
	CAPACITY		
U.S. Models (lbf)	5.5K	11K, 22K	55K
Metric Models (kN)	25	50, 100	250
ACCURACY – (MAX ERROR)			
Static Error Band–% FS	± 0.020	± 0.020	± 0.025
Nonlinearity–% FS	± 0.020	± 0.020	± 0.020
Hysteresis–% FS	± 0.025	± 0.025	± 0.030
Nonrepeatability–% RO	± 0.005	± 0.005	± 0.005
Creep, in 20 min.–%	± 0.01	± 0.01	± 0.01
Side Load Sensitivity–%	± 0.1	± 0.1	± 0.1
Eccentric Load Sensitivity–%/in	± 0.05	± 0.05	± 0.05
Lower Load Limit - % Cap. (ASTM E74 CLASS A)	2.0	2.0	2.0
TEMPERATURE			
Compensated Range–°F	15 to115	15 to 115	15 to 115
Compensated Range–°C	-10 to 45	-10 to 45	-10 to 115
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	± 0.008	± 0.008	± 0.008
Effect on Output–%/°F – MAX	± 0.008	± 0.008	± 0.008
ELECTRICAL			
Rated Output–mV/V (Nominal)	2.0	2.0	2.0
Excitation Voltage–VDC MAX	20	20	20
Bridge Resistance–Ohm (Nominal)	700	700	700
Zero Balance–% RO	± 1.0	± 1.0	± 1.0
Insulation Resistance–Megohm	5000	5000	5000
MECHANICAL			
Safe Overload–% CAP	± 300	± 300	± 300
Deflection @ RO–inch	0.001	0.001	0.002
Weight–lb	9	25	62
Connector	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P
Calibration	T & C	T & C	T & C

ACCESSORIES*

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

* See appendix for more
technical information

STANDARD CONFIGURATIONS

• PT02E-12-8P Connector