

Model 1000 Fatigue Rated High Capacity Load Cell (U.S. & Metric)

- Proprietary Interface temperature compensated strain gages
- 100 million fully reversed cycles
- Performance to .06%
- Eccentric load compensated
- Low deflection
- .0008%/°F (.0015%/°C) temp. effect on output
- Barometric compensation
- Shunt calibration
- Tension and compression



Shown with optional base

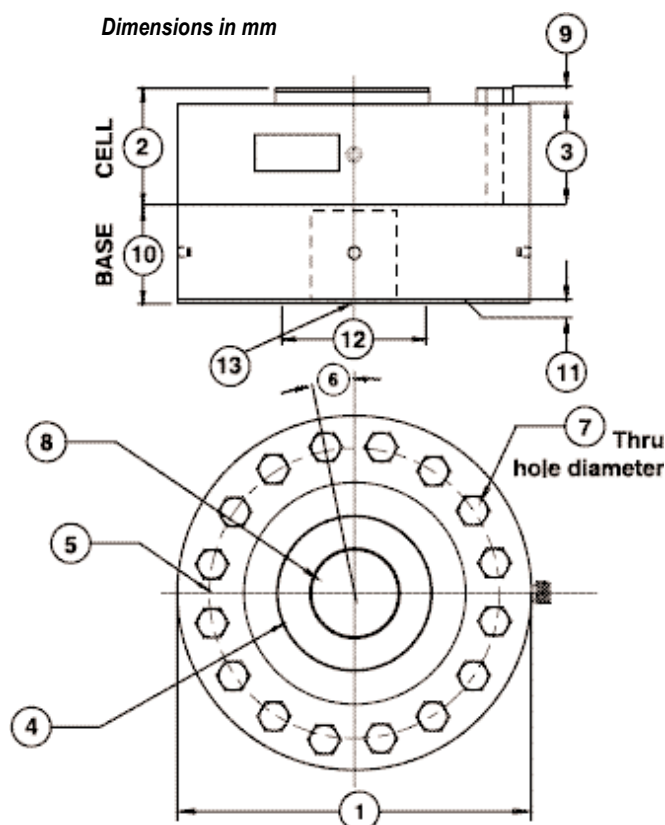
SPECIFICATIONS

PARAMETERS	MODEL					
	1040	1044	1052	1060	1080	1090
	CAPACITY					
U.S. Models (lbf)	100K	135K	200K	300K	500K	1000K
Metric Models (kN)	450	600	900	1500	2250	4500
ACCURACY – (MAX ERROR)						
Static Error Band–% FS	±0.06	±0.07	±0.10	±0.10	±0.15	±0.20
Nonlinearity–% FS	±0.06	±0.08	±0.10	±0.10	±0.15	±0.20
Hysteresis–% FS	±0.06	±0.08	±0.10	±0.10	±0.15	±0.20
Nonrepeatability–% RO	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
Creep, in 20 min–%	±0.025	±0.025	±0.025	±0.025	±0.025	±0.025
Side Load Sensitivity–%	±0.1	±0.25	±0.25	±0.25	±0.25	±0.25
Eccentric Load Sensitivity–%/in	±0.1	±0.25	±0.25	±0.25	±0.25	±0.50
TEMPERATURE						
Compensated Range–°F	15 to 115	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	-10 to 45
Operating Range–°F	-65 to 200	-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	-55 to 90
Effect on Zero–%RO/°F – MAX	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008
Effect on Zero–%RO/°C – MAX	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015
Effect on Output–%RO/°F – MAX	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008
Effect on Output–%RO/°C – MAX	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015
ELECTRICAL						
Rated Output–mV/V (Nominal)	2.0	2.0	2.0	2.0	2.0	2.0
Excitation Voltage–VDC MAX	20	20	20	20	20	20
Bridge Resistance–Ohm (Nominal)	350	350	350	350	350	350
Zero Balance–% RO	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
Insulation Resistance–Megohm	5000	5000	5000	5000	5000	5000
MECHANICAL						
Safe Overload–% CAP	±300	±300	±300	±300	±300	±300
Deflection @ RO–inch	0.003	0.003	0.004	0.004	0.005	0.005
Deflection @ RO–mm	0.075	0.076	0.10	0.10	0.13	0.13
Optional Base–P/N (Metric)	B105 (M)	B116 (M)	B121 (M)	B122 (M)	B123 (M)	B125 (M)
Natural Frequency–kHz	4.9	5.0	5.5	5.5	5.5	5.5
Weight–lb	68	70	100	200	450	860
Weight–kg	30.9	31.8	45	90	205	390
Connector	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P	PC04E-10-6P
Calibration	T & C	T & C	T & C	T & C	T & C	T & C

DIMENSIONS

See Drawing	MODEL											
	1040		1044		1052		1060		1080		1090	
	CAPACITY											
	U.S.	Metric	U.S.	Metric	U.S.	Metric	U.S.	Metric	U.S.	Metric	U.S.	Metric
	(lbf)	(kN)	(lbf)	(kN)	(lbf)	(kN)	(lbf)	(kN)	(lbf)	(kN)	(lbf)	(kN)
	100K	450	135K	600	200K	900	300K	1500	500K	2250	1000K	4500
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
(1)	11.0	279.0	11.0	279.0	12.0	304.8	15.5	393.7	20.50	520.7	26.00	660.4
(2)	3.50	88.9	4.00	101.6	4.50	114.3	5.50	139.7	6.25	158.8	7.75	196.9
(3)	3.00	76.2	3.25	82.6	4.25	108.0	5.00	127.0	6.00	152.4	7.50	190.5
(4)	4.81	122.2	4.81	122.2	5.68	144.3	7.73	196.3	10.55	267.9	13.79	350.3
(5)	9.00	228.6	8.75	222.2	9.88	250.8	12.68	322.1	16.5	419.1	20.50	520.7
(6)	11.25°	11.25°	11.25°	11.25°	9.00°	9.00°	7.50°	7.50°	6.43°	6.43°	5.63°	5.63°
(7)	0.65	16.5	0.79	20.1	0.79	21.0	0.94	23.9	1.06	27.0	1.31	33.3
(8)	16 places		16 places		20 places		24 places		28 places		32 places	
	2 3/4-8 UNF-3B	M72 X 2-4H	2 3/4-8 UNF-3B	M72 X 2-4H	3 1/2-8 UN-3B	M90 X 3-4H	4 1/4-8 UN-3B	M120 X 4-4H	6.00-8 UN-3B	M150 X 4-4H	8.00-8 UN-3B	M200 X 4-4H
	3.25 in deep	82.6 mm deep	3.75 in deep	96.3 mm deep	3.75 in deep	95.3 mm deep	4.25 in deep	108 mm deep	5.63 in deep	130 mm deep	7.00 in deep	178 mm deep
(9)	0.50	12.7	0.50	12.7	0.59	15.0	0.69	17.5	1.00	25.4	1.25	31.3
(10)	3.00	76.2	4.00	101.6	4.50	114.3	5.00	127.0	7.00	177.8	9.00	228.6
(11)	0.03	0.80	0.03	0.80	0.03	0.80	0.03	0.80	0.03	0.80	0.10	2.5
(12)	4.50	114.3	4.50	114.3	6.00	152.4	7.75	196.9	10.55	267.9	14.00	355.6
(13)	2 3/4-8 UNF-3B	M72 X 2-4H	2 3/4-8 UNF-3B	M72 X 2-4H	3 1/2-8 UN-3B	M90 X 3-4H	4 1/4-8 UN-3B	M120 X 4-4H	6.00-8 UN-3B	M150 X 4-4H	8.00-8 UN-3B	M200 X 4-4H
	2.75 in deep	69.8 mm deep	3.75 in deep	95.3 mm deep	3.75 in deep	95.3 mm deep	4.25 in deep	108 mm deep	6.38 in deep	162 mm deep	7.25 in deep	184 mm deep

Dimensions in mm



OPTIONS

Base (Recommended)
 Integral 10 ft Cable
 Bayonet Connector
 Multiple Bridge
 Standardized Output
 Transducer Electronic Data Sheet (TEDS)

ACCESSORIES

Mating Connector
 Instrumentation
 Loading Hardware

STANDARD CONFIGURATIONS

10 ft Integral Cable (10xxAJ-nn)
 <or> PC04E-10-6P Standard Connector (10xxAF-nn)
 <or> PT02E-10-6P Bayonet Connector (10xxCDS-nn)
 Installed Base (-B suffix)