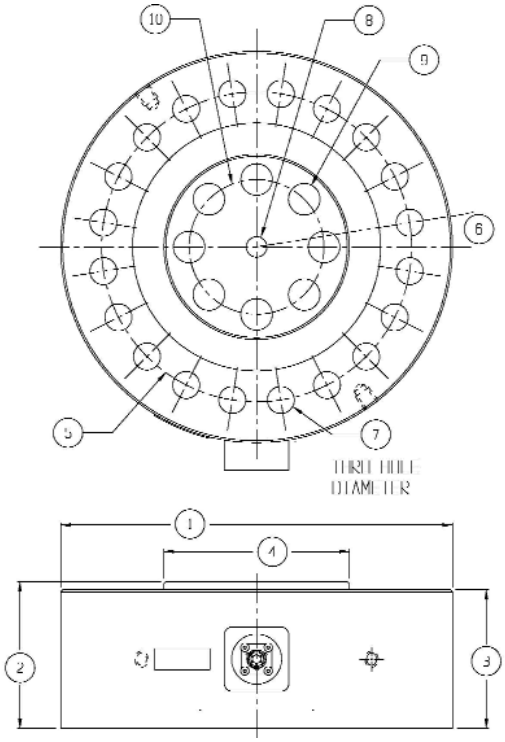
Model 1200 Flange Load Cell

Why the Interface model 1200 Flange Load Cell is the best in class:

- **Standard flange design mounts directly to cylinders**
- **Proprietary Interface temperature compensated strain gages**
- **Performance to .05%**
- **Eccentric load compensated**
- **.0008%/°F (.0015%/°C) temp. effect on output**
- **Low deflection**
- **Shunt calibration**
- **Barometric compensation**
- **Tension & compression**



DIMENSIONS

See Drawing	MODEL 1228		1238		1248		1258		1268	
	CAPACITY									
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	30K	50kN, 100kN, 140kN	55K	250kN	110K	500kN	220K	1000kN	330K	1500kN
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
①	6.06	153.9	8.00	203.2	11.00	279.4	12.00	304.8	15.50	393.7
②	1.75	44.5	2.5	63.5	3.50	88.9	4.5	114.3	5.50	139.7
③	1.63	41.4	2.25	57.2	3.00	76.2	4.25	108.0	5.00	127.0
④	2.65*	67.3	3.76	95.5	4.81	122.2	5.68	144.3	7.75	196.9
⑤	5.13	130.3	6.50	165.1	9	228.8	9.50	241.3	12.68	322.1
⑥	15°		11.25°		11.25°		9.0°		7.5°	
⑦	0.41	10.4	0.50	12.7	0.66	16.8	0.83	21.0	0.97	24.6
	12 places		16 places		16 places		20 places		24 places	
⑧	0.316	8.03	0.631	16.02	0.631	16.02	0.631	16.02	0.788	20.02
⑨	0.41	10.4	0.65	16.5	0.65	16.5	0.97	24.6	0.97	24.6
	8 places		8 places		8 places		8 places		12 places	
⑩	1.77	45.0	2.80	71.0	2.80	71.0	4.13	105.0	5.91	150.0

*2.41 (61.2) for 50kN

Dimensions are approximate. Contact factory for current drawings.

For lower capacities; refer to the 1700 model.

INTERFACE • 7401 E. Butherus Drive, Scottsdale, AZ 85260 • PHONE: (480) 948-5555 • FAX: (480) 948-1924

www.interfaceforce.com • Email: gen@interfaceforce.com • **ORDER TOLL-FREE 1-800-947-5598**

SPECIFICATIONS

PARAMETERS	MODEL 1228	1238	1248	1258	1268
CAPACITY					
U.S. Models (lbf)	**30K**	**55K**	**110K**	**220K**	**330K**
Metric Models (kN)	**140kN**	**250kN**	**500kN**	**1000kN**	**1500kN**
ACCURACY – (MAX ERROR)					
Static Error Band–% FS	±0.05	±0.05	±0.06	±0.10	±0.12
Nonlinearity–% FS	±0.05	±0.05	±0.07	±0.10	±0.12
Hysteresis–% FS	±0.05	±0.05	±0.06	±0.10	±0.12
Nonrepeatability–% RO	±0.01	±0.01	±0.01	±0.01	±0.01
Creep, in 20 min–%	±0.025	±0.025	±0.025	±0.025	±0.025
Side Load Sensitivity–%	±0.25	±0.25	±0.25	±0.25	±0.25
Eccentric Load Sensitivity–%/in	±0.25	±0.25	±0.25	±0.25	±0.25
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	-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
Effect on Zero–%RO/˚C – MAX	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015
Effect on Output–%/˚F – MAX	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008
Effect on Output–%/˚C – MAX	±0.0015	±0.0015	±0.0015	±0.0015	±0.0015
ELECTRICAL					
Rated Output–mV/V (Nominal)	2.2	2.2	2.2	2.2	2.2
Excitation Voltage–VDC – MAX	20	20	20	20	20
Bridge Resistance–Ohm (Nominal)	350±3.5	350±3.5	350±3.5	350±3.5	350±3.5
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	0.001	0.002	0.004	0.005	0.006
Natural Frequency–kHz	7	5.9	4.4	5	5.1
Weight–lb	9.5	26	71	100	204
Weight–kg	4.3	11.8	32.2	46.7	92.5
Connector	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P	PT02E-10-6P
Calibration	T & C	T & C	T & C	T & C	T & C

OPTIONS*

Integral 10 ft Cable
PC04E-10-6P Connector
Multiple Bridge
Standardized Output
Connector Protection
See Transducer Electronic Data Sheet (TEDS)

ACCESSORIES*

Mating Connector
Instrumentation

**See appendix for more technical information*