

5100 SERIES HIGH CAPACITY COMPRESSION COLUMN FORCE TRANSDUCERS

FEATURES

- Compact Design
- .15% Accuracy
- Special Capacities to 2 Million lbf.
- 5pt Compression Calibration
- Proprietary Modulus Compensated Strain Gages
- Metric Capacities Available - Consult Factory



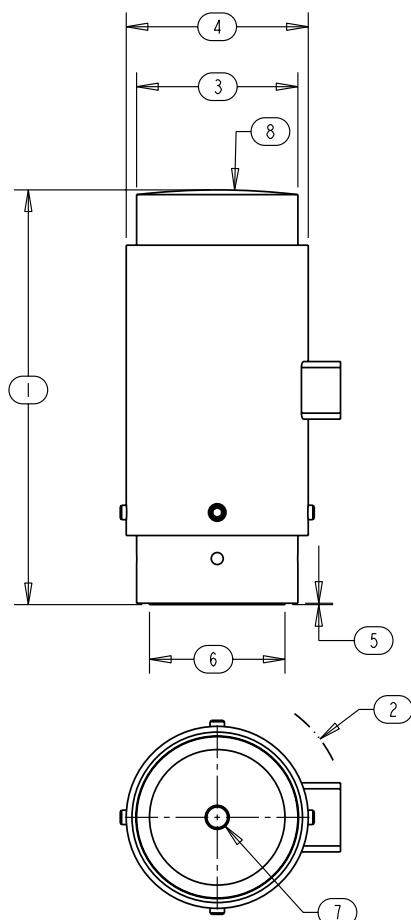
SPECIFICATIONS

Model		5130	5135	5140	5160	5180
Capacity	U.S. lbf.	100K	200K	300, 400K	500K, 600K	750K, 1000K
PARAMETERS						
ACCURACY						
Static Error Band, % Rated Output		+/-0.150	+/-0.150	+/-0.150	+/-0.150	+/-0.150
Nonlinearity, % Rated Output		+/-0.150	+/-0.150	+/-0.150	+/-0.150	+/-0.150
Hysteresis, % Rated Output		+/-0.150	+/-0.150	+/-0.150	+/-0.150	+/-0.150
Nonrepeatability, % Rated Output		+/-0.010	+/-0.010	+/-0.010	+/-0.010	+/-0.010
Creep, % in 20 minutes		+/-0.025	+/-0.025	+/-0.025	+/-0.025	+/-0.025
Zero Balance, % Rated Output		+/-1.0	+/-1.0	+/-1.0	+/-1.0	+/-1.0
TEMPERATURE						
Range, Compensated, °F		+15 to +115	+15 to +115	+15 to +115	+15 to +115	+15 to +115
Range, Compensated, °C		-10 to +45	-10 to +45	-10 to +45	-10 to +45	-10 to +45
Range, Operating, °F		-30 to +200	-30 to +200	-30 to +200	-30 to +200	-30 to +200
Range, Operating, °C		-34 to +90	-34 to +90	-34 to +90	-34 to +90	-34 to +90
Effect on Sensitivity, % Rdg/ °F		+/-0.003	+/-0.003	+/-0.003	+/-0.003	+/-0.003
Effect on Sensitivity, % Rdg/ °C		+/-0.006	+/-0.006	+/-0.006	+/-0.006	+/-0.006
Effect on Zero, % Rated Output/ ° F		+/-0.003	+/-0.003	+/-0.003	+/-0.003	+/-0.003
Effect on Zero, % Rated Output/ ° C		+/-0.006	+/-0.006	+/-0.006	+/-0.006	+/-0.006
ELECTRICAL						
Rated Output, mV/V, Nominal		2	2	2	2	2
Excitation Voltage, VDC Maximum		15	15	15	15	15
Input Resistance, Ohms		350	350	350	350	350
Output Resistance, Ohms		350	350	350	350	350
Insulation Resistance, Megohm		5000	5000	5000	5000	5000
Bayonet Connector		PT02E-10-6P (MS3112E-10-6P)				
MECHANICAL						
Safe Overload Range, % Rated Capacity		150	150	150	150	150
Weight lb		5	13	25	45, 46	96
Flexure Material		Steel	Steel	Steel	Steel	Steel

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DIMENSIONS

Model	5130	5135	5140	5160	5180
Capacity	100K lbf	200K lbf	300K, 400K lbf	500K, 600K lbf	750K, 1000K lbf
Dimensions	inch	inch	inch	inch	inch
1.	5.00	7.00	9.00	10.00	12.00
2.	R 1.99, 2.26	R 2.33	R 2.78- 300K R 3.00- 400K	R 3.29	R 4.02
3.	2.00	3.00	3.50-300K 3.70-400K	4.50	6.00
4.	2.38	3.25	3.95	5.00	6.50
5.	.03	.03	.03	.03	.03
6.	1.68	2.37	2.94-300K 3.50-400K	3.89	5.02
7.	3/8 -24 .50 Deep	1/2 - 20 .50 Deep	1/2 - 20 .75 Deep.	1 - 14 .75 Deep	1 - 14 1.00 Deep
8.	R 12	R 12	R 15-300K R 16-400K	R 20	R 20



OPTIONS

Additional bridges
Output adjustment to standard
Compression overload protection
Integral cable
Custom connectors
Connector Protectors

ACCESSORIES

Mating connector
Loading fixtures
Interconnect cable
Shunt calibration resistor
Instrumentation