



## Model 5600 Axial Torsion Force Transducer

- Capacities from 6K lbf / 5K lb-in to 180K lbf / 300K lb-in
- Measures compressive force and torque
- Low cross talk
- High stiffness
- Extraneous load resistance

## Specifications

Model	5610 - 5K	5611 - 20K	5612 - 100K	5613 - 200K	5614 - 300K
<b>Capacity</b>					
Fz	6K lbf	30K lbf	100K lbf	150K lbf	180K lbf
	27 kN	130 kN	450 kN	670 kN	800 kN
Mz	5K lb-in	20K lb-in	100K lb-in	200K lb-in	300K lb-in
	560 Nm	2200 Nm	11000 Nm	22000 Nm	33000 Nm
<b>Accuracy</b>					
Nonlinearity-% FS	±0.1	±0.1	±0.1	±0.1	±0.1
Hysteresis-% FS	±0.1	±0.1	±0.1	±0.1	±0.1
Nonrepeatability-% RO	±0.02	±0.02	±0.02	±0.02	±0.02
<b>Temperature</b>					
Compensated Range-°F	70 to +170	+70 to +170	+70 to +170	+70 to +170	+70 to +170
Compensated Range-°C	+21 to +77	+21 to +77	+21 to +77	+21 to +77	+21 to +77
Operating Range-°F	-65 to +200	-65 to +200	-65 to +200	-65 to +200	-65 to +200
Operating Range-°C	-54 to +93	-54 to +93	-54 to +93	-54 to +93	-54 to +93
Effect on Zero-%RO/°F-MAX	±0.004 (Fz)	±0.004 (Fz)	±0.004 (Fz)	±0.004 (Fz)	±0.004 (Fz)
	±0.002 (Mz)	±0.002 (Mz)	±0.002 (Mz)	±0.002 (Mz)	±0.002 (Mz)
Effect on Zero-%RO/°C-MAX	±0.007 (Fz)	±0.007 (Fz)	±0.007 (Fz)	±0.007 (Fz)	±0.007 (Fz)
	±0.004 (Mz)	±0.004 (Mz)	±0.004 (Mz)	±0.004 (Mz)	±0.004 (Mz)
Effect on Output-%/°F-MAX	±0.002	±0.002	±0.002	±0.002	±0.002
Effect on Output-%/°C-MAX	±0.004	±0.004	±0.004	±0.004	±0.004
<b>Electrical</b>					
Rated Output-mV/V (Nominal)	0.25 (Fz)	0.5 (Fz)	0.5 (Fz)	0.5 (Fz)	0.5 (Fz)
	2 (Mz)	2 (Mz)	2 (Mz)	2 (Mz)	2 (Mz)
Excitation Voltage-VDC MAX	20	20	20	20	20
Bridge Resistance- Ohm (Nominal)	350	350	350	350	350
Electrical Connection	MS3102E-14S-5P	MS3102E-14S-5P	MS3102E-14S-5P	MS3102E-14S-5P	MS3102E-14S-5P
<b>Mechanical</b>					
Safe Overload-% CAP	±150	±150	±150	±150	±150
Deflection at Capacity-(inch/rad)	0.001 (Fz)	0.001 (Fz)	0.002 (Fz)	0.002 (Fz)	0.002 (Fz)
	0.005 (Mz)	0.004 (Mz)	0.005 (Mz)	0.006 (Mz)	0.005 (Mz)
Overhung Moment-lb-in MAX	2	10	50	90	200
Side load-lbf MAX	2K	7K	20K	30K	55K

Custom Sizes and Capacities Available.