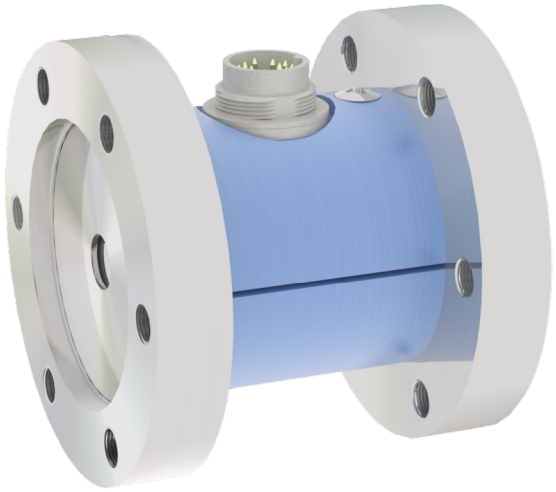
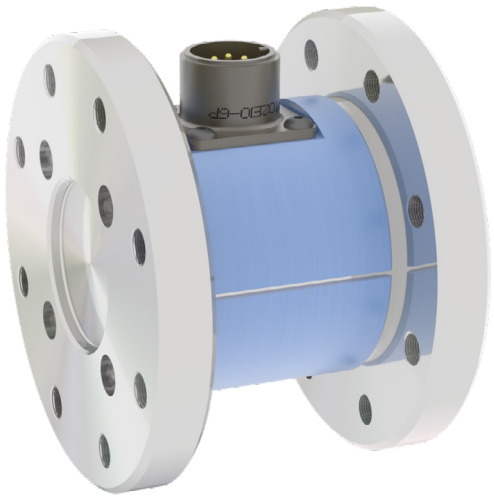
AT101 AXIAL TORSION FORCE & TORQUE TRANSDUCER (US & METRIC)

FLANGE TYPE 1



Model AT101-2/50

FLANGE TYPE 2



Model AT101-20/20

FEATURES & BENEFITS

- Capacities: Force kN(lbf) / Torque Nm(lbf-in)- 0.5(112) / 5(44.3), 1(225) / 10(88.5), 1(225) / 30(266), 20(4.5K) / 20(177), 0.5(112) / 50(443), 2(450) / 50(443),
- Measures force & torque in one unit
- Thru-hole

OPTIONS

- 100% Cal Control (Internal Shunt Cal)

CAPACITIES

Model	Force		Torque		Flange Type
	kN	lbf	Nm	lbf-in	
AT101 – 0.5/5	0.5	112	5	44.3	1
AT101 – 1/10	1	225	10	88.5	1
AT101 – 1/30	1	225	30	266	1
AT101 – 20/20	20	4.5K	20	177	2
AT101 – 0.5/50	0.5	112	50	443	1
AT101 – 2/50	2	450	50	443	1

SPECIFICATIONS

ACCURACY – (MAX ERROR)		
Nonlinearity – Torque %FS		± 0.2
Hysteresis – Torque %FS		± 0.2
Nonlinearity – Torque %FS		± 0.3
Hysteresis – Torque %FS		± 0.3
Hysteresis – %FS		± 0.2
Nonrepeatability – %RO		± 0.1
Cross talk – %FS		< 1%
TEMPERATURE		
Effect on Zero – %RO / °C		± 0.02
Effect on Output – % / °C		± 0.02
Compensated Range	°C	-5 to +45
	°F	+23 to +113
Operating Range	°C	-15 to +55
	°F	+5 to +131
ELECTRICAL		
Output – mV/V		1
Excitation Voltage – VDC		2-12
Bridge Resistance – Torque – Ohm		350
Bridge Resistance – Force – Ohm		700
MECHANICAL		
Safe Overload – %RO		150
Protection Level		IP50
Material		Alloy Steel

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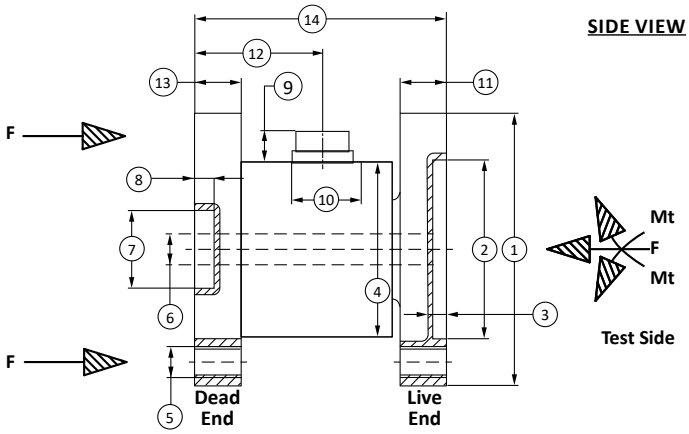
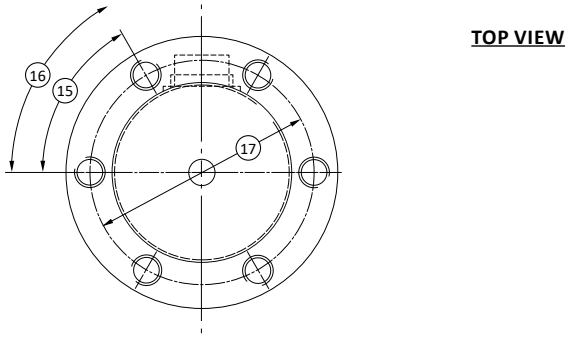
AT101 AXIAL TORSION FORCE & TORQUE TRANSDUCER (US & METRIC)

DIMENSIONS: FLANGE TYPE 1

Model	AT101 – 0.5/5, 1/10, 1/30, 0.5/50, 2/50	
Capacity	0.5/5, 1/10, 1/30, 0.5/50, 2/50	112/44.3, 225/88.5, 225/266, 112/443, 450/443
See Drawing	Metric (mm)	U.S. (in)
(1)	Ø70	Ø2.8
(2)	Ø46 H7	Ø(1.8110/1.8100)
(3)	3.5	0.1
(4)	Ø45	Ø1.8
(5)	M8	
(6)	Ø8	Ø0.3
(7)	Ø20 H7	Ø(0.7874/0.7866)
(8)	5 (+0.2)	0.197 (±0.008)
(9)	8	0.3
(10)	Ø18	Ø0.7
(11)	12	0.5
(12)	33	1.3
(13)	12	0.5
(14)	65 (±0.1)	2.559 (±0.004)
(15)	60°	
(16)	6x60° (360°)	
(17)	Ø58 (±0.1)	Ø2.283 (±0.004)





DIMENSIONS: FLANGE TYPE 2

Model	AT101 - 20/20	
Capacity	20/20	4.5K/177
See Drawing	Metric (mm)	U.S. (in)
(1)	Ø70	Ø2.8
(2)	Ø45	Ø1.8
(3)	8	0.3
(4)	12	0.5
(5)	33	1.3
(6)	65	2.6
(7)	Ø6 H7 ↧ (≥6)	Ø(0.2362/0.2357) ↧ (≥0.2)
(8)	Ø58 (±0.1)	Ø2.283 (±0.004)
(9)	M8	
(10)	12x30°(360°)