

AT102 AXIAL TORSION FORCE & TORQUE TRANSDUCER (U.S. & METRIC)

FEATURES & BENEFITS

- Capacity: Force kN(lbf) / Torque Nm(lbf-in) – 10(2.25K) / 10(88.5)
- Compact design
- Side cable exit

OPTIONS

- Internal shunt resistor – 100% output

SPECIFICATIONS

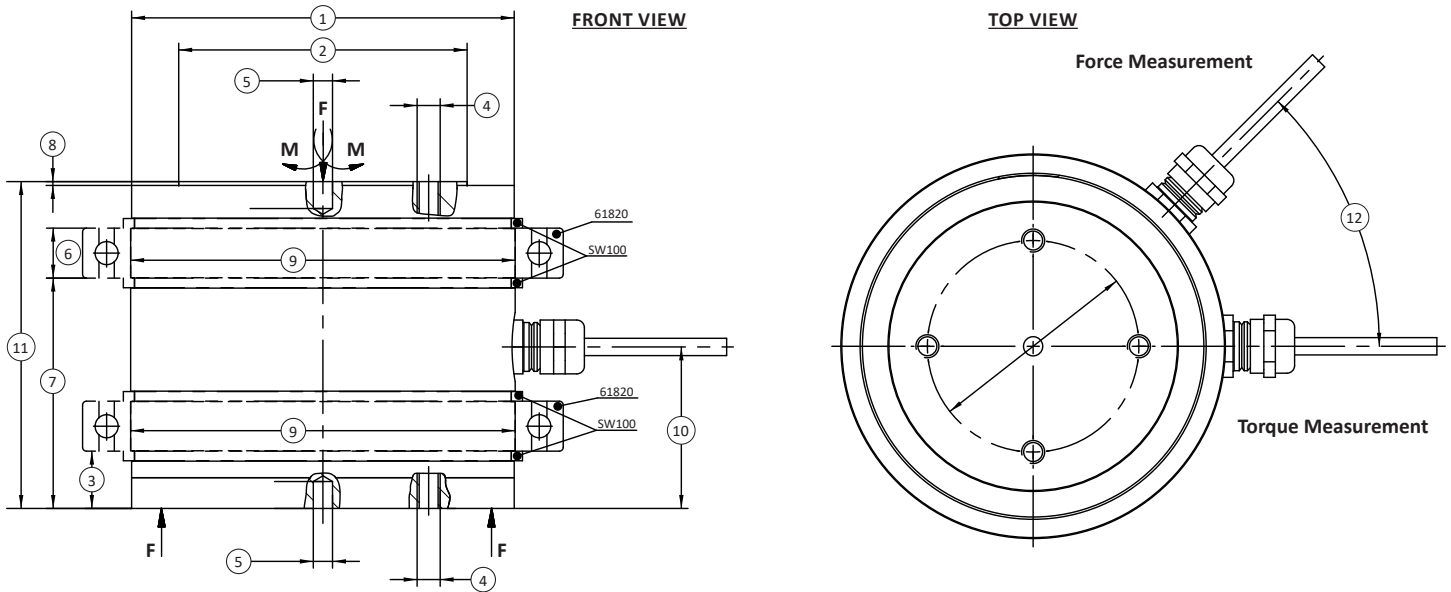
ACCURACY – (MAX ERROR)		
Nonlinearity – Torque %FS		± 0.2
Hysteresis – Torque %FS		± 0.2
Nonrepeatability – %RO		± 0.08
Cross Talk – %FS		< 1
Creep, in 30 min – %		± 0.1
TEMPERATURE		
Effect on Zero – %RO / deg	°C	± 0.02
Effect on Output – % / deg	°C	± 0.02
Compensated Range	°C	-10 to +50
	°F	+14 to +122
Operating Range	°C	-30 to +80
	°F	-22 to +176
ELECTRICAL		
Output – mV/V ± %		1 ±15
Excitation Voltage – VDC		2-12
Bridge Resistance – Ohm		350
Electrical Connection	m	2 cables (3 each)
	ft	2 cables (9.8 each)
MECHANICAL		
Safe Overload – %RO		150
IP Rating		IP40
Material		Alloy steel

STANDARD CONFIGURATION



Model AT102 (Shown)

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DIMENSIONS

See Drawing	Metric (kN/Nm)	U.S. (lbf/lbf-in)
	10/10	2.25K/88.5
	mm	in
(1)	$\varnothing 99.5^{-0.2}$	$\varnothing 3.92^{-0.008}$
(2)	$\varnothing 75^{-0.1}$	$\varnothing 3.0^{-0.004}$
(3)	15	0.6
(4)	M6 $\downarrow$ 8	
(5)	$\varnothing 5$ H7	$\varnothing (1.1835/1.1827)$
(6)	13	0.5
(7)	60	2.4
(8)	1	0.04
(9)	$\varnothing 100$ g6	$\varnothing (3.9365/3.9357)$
(10)	42	1.7
(11)	85	3.3
(12)	45°	