

ATDTD-S

Reaction Torque Transducer for Testing and Calibration or Torque Tools

- Measurement ranges 0 ... 10 Nm to 0 ... 50000 Nm
- Non-linearity 0.15 % FSO
- Output 2 mV/V, (1.5 mV/V on 50000 Nm range)
- Supply voltage 10 VDC, max. 15 VDC



■ Description

The ATDTD-S series of Static/Reaction Torque Transducers have been designed specifically for the measurement of direct torque, and is particularly suited for use in calibrating or testing Torque Tools in a QA environment. All ranges are constructed from stainless steel and are environmentally protected to IP65.

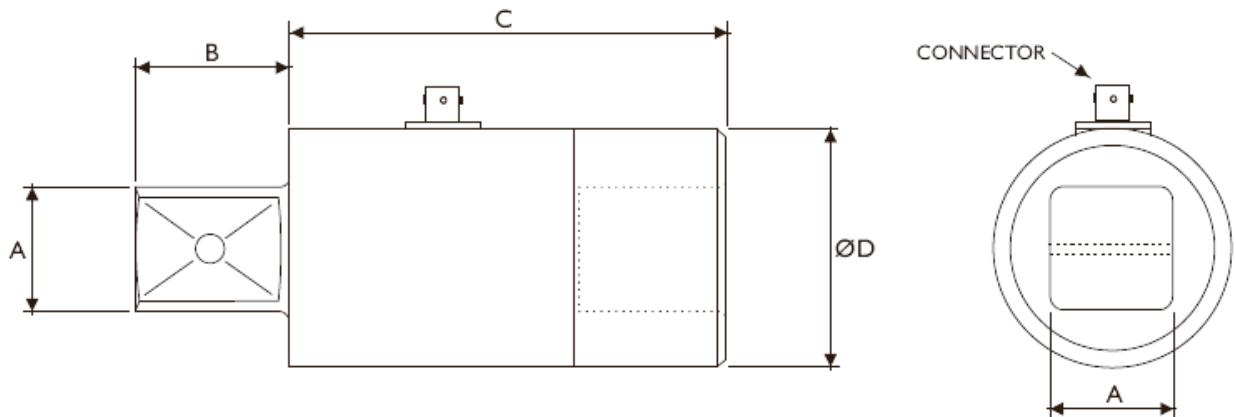
The sensor is provided with an integral, robust bayonet lock military connector for quick and easy connection purposes.

Other styles and ranges are available and can be designed specifically to meet a particular applications requirement (please consult our Applications Department).

■ Specification

Characteristics	ATDTD-S	Units
Range:	10, 20, 50, 100, 500, 1000, 2000, 5000, 10000, 20000, 50000	Nm
Excitation Voltage:	10 (15 max.)	VDC or VAC
Sensitivity:	2 nominal, 1.5 on 50000 Nm	mV/V
Overload Protection:	150	±% FSO
Non-Linearity:	<0.15	±% FSO
Repeatability:	<0.15	±% FSO
Hysteresis:	<0.15	% FSO
Temperature Range Operating:	-20 to +80	°C
Temperature Range Compensated:	+20 to +70	°C
Temperature Effects On Zero:	<0.010	±% FSO/°C
Temperature Range On Output:	<0.010	±Reading/°C
Bridge Resistance:	700 nominal	Ohms
Drive Size:	See Dimension Table	
Environmental Protection:	IP65	

■ Dimensions



Range (Nm)	Square Drive A	B	C	ØD
10	0.250 inch	7.5	48	25
20	0.250 inch	7.5	48	25
50	0.375 inch	11.5	58	35
100	0.500 inch	15.5	58	35
500	0.750 inch	23	79	54
1000	1.000 inch	28	79	54
2000	1.500 inch	38	95	70
5000	2.000 inch	45	130	90
10000	2.500 inch	55	165	110
20000	3.000 inch	68	212	130
50000	3.500 inch	79	185	180

Dimensions in „mm“ unless otherwise stated, approx. values.
 These drawings are for information only and not intended for construction purpose.
 Please contact us for detailed drawings.

Our policy is to improve specification of our products continuously, so technical and production details can be changed without any notice.