

**Description**

**CE Certified TTS-SS Static Reaction Torque Transducer** is used in industrial & research applications where Torque is to be measured accurately. It is easily fitted in suitable test bench through key ways provided at both cylindrical shaft ends. It is constructed from stainless steel 17-4 PH material for ruggedness and harsh industrial applications. It is strain gage based sensor with full temperature compensation over 10 to 50°C range. Flange mounted and Square Drive versions are available. **All of these sensors are also available for inline rotating torque measurements with Slip Ring mechanism or wireless non-contact types. Integrated measuring system for rotational speed or angle of rotation can be provided for gear testing or determining power of rotating machines.**

**Features**

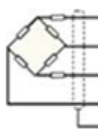
- ❖ **CE Rated** ❖ Excellent selection of range from 0-50 to 0-50KNM.
- ❖ SS 17-4 PH construction for resistance against shock and overload.
- ❖ Environmentally protected for IP-65 Class.
- ❖ Can be customized to suit customer's requirements.
- ❖ Axial & Bending forces are compensated.

**Applications**

- ❖ Motor, Switches, Shaft & Axle torque measurement.
- ❖ To measure operating Torque of Industrial Valve & actuators.
- ❖ Automotive, Aerospace & offshore valves test rigs.
- ❖ Torque measurement of Industrial Fastener.

**Performance Specification**

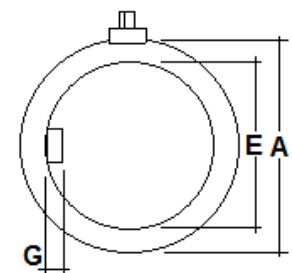
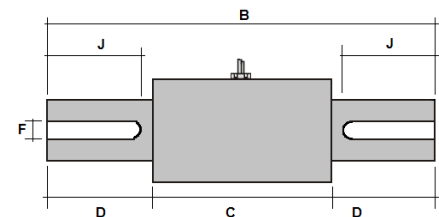
Standard Capacities(NM)	See Table below
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 m V/ V +/- 0.2
Non - Linearity	< ±0.1% Full Scale Output
Hysteresis	< ±0.1% FSO
Non-Repeatability	< ±0.1% FSO
Creep (30 minutes)	< ±0.3% FSO
Zero Balance	±1.0% FSO
Input Resistance	392 ± 15 Ohms
Output Resistance	350 ± 3 Ohms
Insulation Resistance	> 1000 Mega Ohms(50 VDC)
Cable Length	5 Meters
Safe Overload	150% FSO
Ultimate Overload	250% FSO
Temp. Compensated Range	0-50 °C
Temp. Effect on Output	< 0.05% FSO/ °C
Temperature Effect on Zero	< 0.05% FSO/ °C
Rotational Angular Deflection	< 0.4° at FSO
Finish & Construction	Stainless Steel 17-4 PH
Environmental Protection	IP 65 for gage area

**Electrical Termination**

- + Input - Red
- + Output - Green
- Input - Black
- Output - White
- Shield - Floated

**Options**

Compatible Instrument with 4-20 mA / 0-2 Volt Output  
 Digital Version with RS-485 interface / USB output  
 Blue Tooth Or Wireless Telemetry  
 Software for Graphic, Tabulation, Reporting And Analysis



Capacity NM	A –appx.	B	C-appx.	D-appx.	E - ø	F	G	J
50	26	65	35	15	20	6	3.5	15
100 , 200	32	100	50	25	25	8	4	20
300, 500, 1K	47	150	54	48	40	12	5	40
2K, 3K, 5K	70	200	60	70	60	18	7	60
10K	84	240	72	84	75	20	7.5	75
15K	98	280	80	100	90	25	9	90
20K, 30K, 40K	130	365	105	130	120	32	11	120
50K	160	410	114	148	140	36	12	140

Specifications are subject to change.

All dimensions are in mm.



Manufactured by:

**ADI ARTECH**  
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 (An ISO 9001:2015 Certified Company)

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