

Description

ADI ARTECH'S Torque cum Thrust transducer TTS-SS-TT is **CE Certified** general purpose static type torque sensor for accurate measurement of Torque and Thrust in testing. It is constructed from SS 17-4 ph material. It is strain gage based sensor with full temperature compensation over 10 to 50 °C. It is very accurate, reliable and sturdy for industrial applications. It is compensated for axial and bending forces for accurate torque measurements. It is available from 0-50 NM/0-1500N to 0-50KNM/0-1500KN ranges. TTs is available in wide variety of options: both ends shaft, both end flange and combination of shaft & flange. Customized version can be provided as per user's dimensions and capacity.

Features

- ❖ **CE Rated** ❖ 0-50NM/0-1500N to 0-50KNM/0-1500KN capacities available.
- ❖ Stainless Steel 17-4 PH construction for resistance against shock & overload.
- ❖ Can be designed to fit your dimensional needs.

Applications

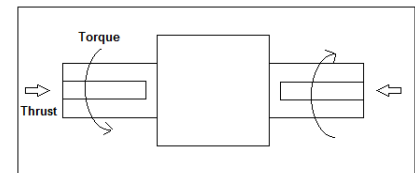
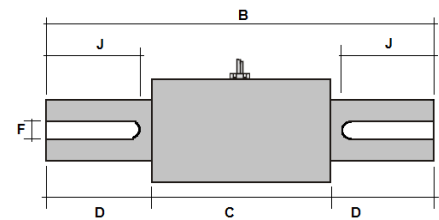
- Valve Testing
- Fastener Testing
- Gear Box testing
- Drilling performance test
- Thrust Bearing performance test
- Aircraft propulsion test

Performance Specification

Standard Capacities	See table below
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 mV/ V-TORQUE , 1mV/ V-THRUST
Non - Linearity	< ±0.5% FSO
Hysteresis	< ±0.2% FSO
Non-Repeatability	< ±0.2% FSO
Creep (30 minutes)	< ±0.1% FSO
Zero Balance	±1.5% FSO
Input Resistance	390 Ohms
Output Resistance	350 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Safe Overload	150% OF RC
Ultimate Overload	200% OF RC
Temp. Compensated Range	10-50 °C
Temperature Effect on Output	< 0.05% FSO/ °C
Temperature Effect on Zero	< 0.05% FSO/ °C
Rotational Angular Deflection	< 0.2° at FSO
Finish & Construction	Stainless Steel 17 - 4 PH
Environmental Protection Class	IP65 Gage Area

Electrical Termination

- 2 core – DC Excitation – RED-+VE, BLACK- -VE.
- 2 core – Signal – torque – GREEN-+VE, WHITE--VE
- 2 core – Signal – Force - YELLOW-+VE, BLUE--VE



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/N	A	B	C	D	E(Max)	F	G	J
50/ 15K ,	26	65	35	15	20	6	3.5	15
100/ 25K,200/40K	32	100	50	25	25	8	4	20
300/ 50K,500/75K,1K/125K	47	150	54	48	40	12	5	40
2K/ 200K,3K/250K,5K/375K	70	200	60	70	60	18	7	60
10K/ 600K	84	240	72	84	75	20	7.5	75
15K/ 750K ,	98	280	80	100	90	25	9	90
20K/ 1000K,30K/1250K,40K/1400K	130	365	105	130	120	32	11	120
50k/ 1500K	160	410	114	148	140	36	12	140

Specification are subject to change

All dimensions are in mm.

	<p>Made in INDIA by:</p> <p>ADI ARTECH</p> <p>TRANSDUCERS PVT. LTD.</p> <p>(An ISO 9001:2015 Certified Company)</p>	<p>917/1, G.I.D.C. Estate, Makarpura, Vadodara - 390 010, Gujarat, INDIA</p> <p>Mobile : +91-9374068998, 9879444551, 9054467370</p> <p>Email : sales@adiartech.com, adiartech@adiartech.com</p> <p>Website : www.adiartech.com</p>
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