TTD-FF-NON CONTACT

TTD-FF DYNAMIC TORQUE TRANSDUCER FLANGE TYPE





Description

TTD-FF is CE Certified flanged type general purpose dynamic rotary type sensor for accurate measurement of Torque in rotating equipment. It is constructed from SS 17-4 PH / Tool Steel material. This is strain gauge based sensor with full temperature compensation over 10~50 ºC. It is very accurate, reliable and sturdy for industrial applications. It is compensated for axial and bending forces for precise torque measurements. It is available from 0-50 NM to 0-50 KNM ranges. TTD-FF is wireless telemetry torque sensor. This wireless transmitting device is supported with remote indicator duly calibrated. Transmitter with signal conditioner is supported with battery power within the sensor.
This can be offered with customer's required specification. This system also can be provided optionally with user's software for graphics, tabulation and analysis.

Applications

- Electrical tool testing
- Gear Box testing
- Axle/shaft torsion test
- Bearing friction measuring
- Testing of starters/slip rings/clutches/brakes
- Electric/hydraulic/pneumatic motors testing
- Alternators/pumps/gas, diesel, turbine engine testing
- Engine Dynamometer, Automobile testing

Key Features

High accuracy available as per standard BS 7882:2017/DIN 51309, ASTM E2428-15a

Complete Environmental Protection – Meets IP 65

Stainless steel 17-4 PH or Tool Steel construction for resistance against shock and overload

Wide range of capacities from 0-50 NM to 0-50000 NM.

Calibration in mV/V/Ω

Can be customized to suit customer's need

ADI ARTECH
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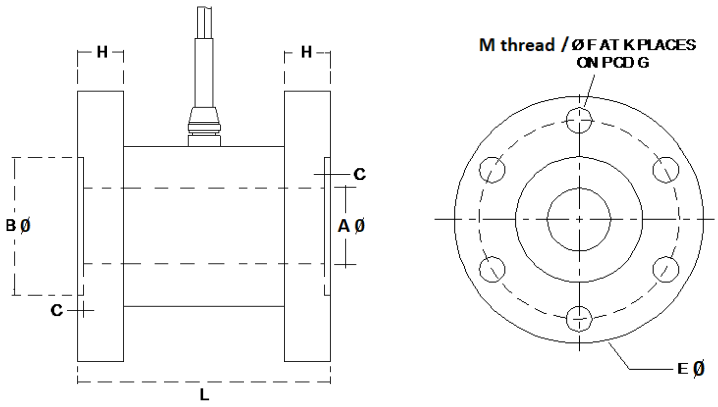
Technical Specifications

STANDARD CAPACITY-NM		**5, 10, 20, 50, 100, 200, 300, 500, 1K, 1.5K, 2K, 3K, 5K, 10K, 20K, 30K, 50K**
PERFORMANCE	Accuracy value as per BS7882:2017/ DIN 51309 , ASTM E2428-15a	
	Non - Linearity	< ±0.2 % FSO
	Hysteresis	< ±0.2 % FSO
	Non-Repeatability	< ±0.5 % FSO
	Creep (30 minutes)	< ±0.3 % FSO
	RPM	4000 Max Non-contact type with Radio Telemetry System
TORQUE SHAFT	RF Transmitter	Battery operated with inbuilt battery & installed on the Torque Shaft, Transmitters sensor signal via Radio Telemetry to stationary receiver.
	Rechargeable Battery	Li-Ion battery pack capable up to 20 Hrs. run time installed in Transmitter with one spare battery and battery charger.
STRUCTURE	Safe Overload Of Rated Capacity	150% of RC
	Ultimate Overload of Rated Capacity	200% of RC
	Allowable Side Load	50%
	Finish Product	Tool Steel/ Stainless Steel 17-4 PH/Aluminum Alloy
	As per IS/IEC 60529:2001	IP65 for Gauge Area
TEMP.	Operating Temperature	0ºC to 50ºC
	Compensated Temperature	10ºC to 50ºC
	Zero Drift with temperature	±0.02% of Span/ ºC
	Span Drift with temperature	±0.02% of Span/ ºC
OPT.	Display & Receiver	LED with 5 Digit Receives Radio Signal from Transmitter.
	Display & Receiver Power	230 VAC @ 50 HZ

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Dimension (mm)



CAPACITY-NM	A-ø	B-ø	C	E-ø	M Thread/ øF Thru Holes	K plc	G-PCD	H	L	MOC
5, 10, 20	5	40	2.5	78	6/NA	6	64	10	100	Aluminum Alloy
50, 100, 200, 300, 500, 1K	10	70	2.5	120	10/10.2	8	100	12	110	SS 17-4 PH
1.5K, 2K, 3K, 5K	60	90	2.5	150	12/12.7	8	125	20	110	SS 17-4 PH
10K	60	110	5.0	190	16/16.5	8	152	22	110	SS 17-4 PH
20K, 30K	60	150	5.0	240	19/19.5	8	203	25	120	SS 17-4 PH
50K	60	175	5.0	285	24/24.5	8	247	30	130	Tool Steel

All dimensions are in mm

Specification are subject to change.

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