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MODEL
                                      TTD-SS DYNAMIC TORQUE TRANSDUCER WITH RPM SENSING
Description
ADI ARTECH'S Torque transducer TTD is CE Certified general purpose dynamic rotary type torque sensor for accurate measurement of
Torque and RPM in rotating equipment. It is constructed from SS 17-4 PH material. This is strain gage based sensor with full temperature
compensation over 10~50°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 to 20NM to 0 to 50KNM ranges. Higher range than 10KNM is RECOMENDED in
Non-Contact Telemetry type only. Torque sensing shaft is installed in ball journals and electrical signals are transferred through high
quality, low noise slip ring and brush mechanism. This can be used at max, 2500RPM only. This is provided with male shaft with key slot
for locking at both ends. Digital instrument with Torque, RPM and Power display can be offered.
TTD is available in wide variety of options: both ends shaft, both ends flange and combination of shaft & flange versions for dynamic torque
measurements. Customized version can be provided as per user's dimensions and capacity.
 Features
 ♦ CE Rated ♦0-20NM to 0-10KNM Capacities available.
 Stainless Steel 17-4 PH construction for resistance against shock and overload.
 Can be designed to fit your dimensional needs and capacity.
   Instrument with Torque, RPM and Power can be offered for motor
 efficiency test.
 Applications
  Electrical tool testing
                                         Gear Box Testing
  Axle/shaft torsion test
                                         Bearing friction measuring
  Testing of starters/slip
                                         Electric/hydraulic/pneumatic motors testing
  rings/brushes/clutches/brakes
  Alternators/pumps/gas
                                 diesel
                                         Engine Dynamometer, Automobile Testing
                            &
  turbine engines testing
 Performance Specification
 Standard Capacities in NM
                                  See Table below
                                                       10 VDC
 Excitation Voltage
 Nominal Output
                                                      2m V / V
 Non – Linearity
                                  < ±0.2% FSO
                                  < ±0.1% FSO
 Hysteresis
 Non-Repeatability
                                  < ±0.1% FSO
 Creep (30 minutes)
                                  < ±0.3% FSO
                                  ±1.0% FSO
 Zero Balance
                                 390 Ohms
 Input Resistance
 Output Resistance
                                  350 Ohms
 Insulation Resistance (50 VDC)
                                 > 1000 Mega Ohms
 Cable Length (4 Core
                                  5 Meters
 Screened)
                                  150% OF RC
 Safe Overload
                                  200% OF RC
 Ultimate Overload
                                 10-50 °C
 Temp. Compensated Range
 Temperature Effect on Output
                                  < 0.005% FSO/ °C
                                                                                                        Anti Rotational stud cum
 Temperature Effect on Zero
                                  < 0.0050% FSO/ °C
                                                                                                       Connector Holder
 Rotational Angular Deflection
                                  < 0. 2 ^\circ at FSO
                                 Stainless Steel 17 – 4 PH
 Finish & Construction
 Environmental Protection Class
                                 IP65 – Gage area
   Electrical Termination
                                 Options
              + Input - Red
                                 Compatible Instrument with 4-20 mA / 0-2 Volt
              + Output - Green
                                   Output
              - Input -Black
                                 Digital Version with RS-485 interface / USB output
              - Output - White
                                 Blue Tooth Or Wireless Telemetry
                                 Software for Graphic, Tabulation, Reporting
            Shield - Floated
                                                                                       ΕĒ
                                                                                                                                       Ε
                                 And Analysis
  RPM-Yellow - +Ve
        Blue --Ve
                                                                        Max. RPM
                          в
                                 С
                                        D
                                                      Е
                                                             F
                                                                  G
   Cap. NM
                  Α
                                               d
                                                                       & Rotational
                                                                                                               С
                                                                                                                              D
                                                                           life
   20, 50,100,
                                                                         2500RPM
                  86
                         180
                                70
                                        55
                                               25
                                                      25
                                                             8
                                                                  4
      200
                                                                         20Millions
    300.500,
                                                                         2000RPM.
                  100
                         200
                                55
                                       72.5
                                               40
                                                      40
                                                            12
                                                                  5
                                                                                        G±
      1000
                                                                         15Millions
                                                                         1500RPM.
                                                                  7
    2K,3K,5K
                  130
                         200
                                60
                                       70
                                               60
                                                      60
                                                            18
                                                                         10Millions
                                                                         1000RPM.
      10K
                  160
                         240
                                72
                                        84
                                               75
                                                      75
                                                            20
                                                                 7.5
                                                                         5Millions
                                                                         500RPM,
                                                                  9
                  185
                                                            25
      15K
                         280
                                80
                                       100
                                               90
                                                      90
                                                                         2.5Millions
                                                                                                               в
                                                                         250RPM
  20K 30K 40K
                  220
                         365
                                105
                                       130
                                              120
                                                      120
                                                            32
                                                                  11
                                                                          1Millions
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Specification are subject to change.

Made in INDIA by:

410

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ADI ARTECH

TRANSDUCERS PVT. LTD.

(An ISO 9001:2015 Certified Company)

148

140

140

250

All dimensions are in mm.



50K

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100RPM.

0.5Millions

12

36