

# Torque Measurement System



## Introduction

Reaction/Static Torque Sensors have been designed for measurement of Reaction or Static Torque and is particularly suited for Research, testing, Calibration, Torque feedback control and Over Torque protection. The Torque sensor provided with integral, robust MIL grade connector for quick & easy connection. It is constructed from electroless nickel plated tool steel for harsh industrial applications. It is compensated for axial and side loads for very good linearity and low hysteresis.

## Sensor Specifications

- a. Reaction torque sensor.
- b. 5 kgm torque capacity.
- c. Strain gauge based.
- d. Excitation voltage-5VDC.
- e. Rated Output 2mv/V.
- f. Construction material Sensor Alloy steel/ Stainless Steel/ Aluminum Alloy.
- g. " Very compact and rugged for heavy duty applications
- h. "Compensated for axial and bending moments for good accuracy.
- i. Sensor is sealed for IP 65-IP67 degree of environmental class.

## Digitizer -Controller Specifications

Display	Two Line alpha Numeric LCD display with backlight
Keypad	Soft touch key pad
Readings	Torque value o/p in kgm.
Sensor input	Using DB9 Connector.
Relay O/P	Two Programmable set point with relay O/P.
Communication port	RS 232/RS485/USB o/p to transfer real time data.
Calibration	Software calibration.
Peak reading	Peak reading display option, selectable by switch.
Analog O/P	0-10 V or 4-20 mA corresponding to Torque.
Pc interface	PC based s/w to collect readings and plot graph on RS232 port.
Weight for Torque	500gx2nos, 1 Kgx3nos.
Heavy mechanical structure.	
1 meter ARM connected with sensor.	
Power supply 220 V AC.	



All The Technology You need

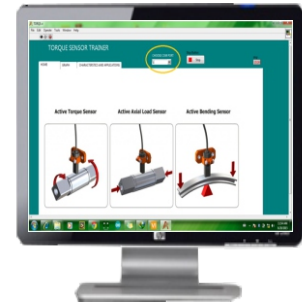
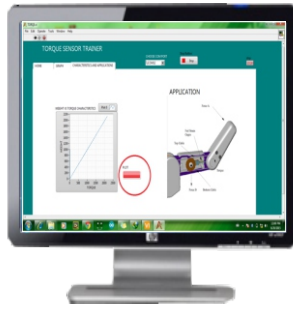
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## Accessories

- 1)Weight -500g X2nos, 1 kg X 3nos.
- 2)Serial cable / USB converter
- 3)Analogue o/p cable.
- 4)Operating manual.
- 5)Software CD.

## Applications

- a.Actuator/valve/electrical tool testing
- b.Axle/shaft torsion test
- c.Testing of starters/slip rings/brushes/clutches/brakes
- d.Alternators/pumps/gas, diesel, turbine engines testing
- e.Automobile testing of drive shaft and crank shaft torque
- f.Defense, Aerospace, R&D Establishments, Offshore test rigs, Automotive, machine tools, electrical and engineering industries.



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