

## MODEL RANGE -P RSGTT

The AWS/TSC series of New Pulley Rotary Torque Transducers are non-contact strain gauge devices with the addition of integral speed or angle sensors. They have been designed to replace standard sheaved pulleys on motor driven systems for Torque monitoring and control of drive and process systems. The transducer design is insensitive to belt tension loads. The transducer is standalone and requires only 15V dc. It has on board power regulators, amplifiers and signal conditioning to output high level signals. Novel power and signal transmission means no wearing part other than bearings. Torque signal output is an equivalent analogue voltage. Angle output is a pulse for every degree of rotation or for speed, output is a pulse for every 6 degrees of shaft rotation. Non-contact measurements enable the AWS/TSC torque transducer to operate to high speeds and sensitivity. This technology allows for a wide range of torque capabilities. Signal processing carried out within the transducer allows for connection cables in excess of 25 metres if required. The advanced technology of the AWS/TSC torque transducer reduces maintenance requirements. This feature is especially useful in long operational and arduous conditions. Applications: Measurement, R&D; Process Control; Engineering and technological Development for motors, motor drive systems, compressors, transmission systems and generators.



# ROTARY TORQUE TRANSDUCER

## FEATURES

- Strain Gauge for Accuracy and Sensitivity
- Non Contact
- High stiffness pulley, insensitive to belt tension loads
- High Speed
- High Sensitivity and Frequency Response
- RPM or Angle encoder as standard
- Stand alone. Requires only dc voltage supply

## SPECIFICATION

**Accuracy :** +/- 0.1% of FSD 1% of RDG from 10-110% FRO  
**Linearity :** > +/- 0.1% of FSD  
**Hysteresis :** +/- 0.05% of FSD  
**Repeatability :** +/- 0.05% of FSD  
**Frequency Response :** Better than 2.5KHz  
**Temperature Coefficient:** 0.1% per degree C  
**Operating Temperature Range :** -10 deg. C to +50 deg. C

**Overload Capacity :** In excess of 200% of rated capacity  
**Input Power Requirements :** +15V dc, 150mA  
**Torque Ranges :** 50Nm to 10000Nm  
**Torque Signal output Bipolar :** +/- 1V dc for rated capacity  
**Speed :** Speed standard 5000 rpm  
Higher Speeds available  
For large sizes speed may reduce pro rata

*The manufacturers reserve the right to change specifications as deemed necessary with continuous improvement.*

## FURTHER INFORMATION CONTACT BELOW

See our Instrumentation Data Sheets for available Display and Interface products



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