

RSGTT Rotary Torque Transducers



TSC have developed a series of new Rotary Torque Transducers which are non-contact strain gauge devices with the addition of integral speed or angle sensors.

Novel power and signal transmission eliminates all wearing parts other than bearings which, together with low inertia parts and non-contact measurement, enable the **RSGTT Rotary Torque Transducer** to operate to high speeds and sensitivity providing a wide range of torque capabilities.

Torque signal output is an equivalent of analogue voltage. Angle output is a pulse for every degree of rotation. Speed output is a pulse for every 6 degrees of shaft rotation. Signal processing within the transducer allows connecting cables in excess of 25 metres. The transducer is 'stand alone'. Mounting of the transducer is by base, flange or in-line between suitable couplings. Automatic ranging and decimal point selection is achieved when used in conjunction with the TSC range of display equipment.

The advanced technology of the RSGTT Rotary Torque Transducer reduces maintenance, which is of particular benefit when used in long operational or arduous conditions.

Applications

Research and Development; Process Control; Engineering and Technological Development for: Motors, Motor Drive Systems, Compressors, Transmission Systems.

Features

- * Strain Gauge
- * Non-Contact
- * Low Inertia
- * High Speed
- * High Sensitivity and Accuracy
- * dc Voltage Supply
- * High Frequency Response
- * RPM or Angle Encoder as standard

Specifications

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 5 KHz
Temperature Coefficient:	0.05% per degree C
Overload Capacity:	In excess of 200% of rated capacity
Operating Temp. Range:	-10°C to 50°C
Input Power Requirements:	±12-18V DC, 150mA
Signal Output Bipolar:	±1V DC for rated Capacity
Torque Ranges:	1Nm to 10000 Nm: 10zf.in to 1,000 lb.ft
Speed:	Standard 20000 RPM. Higher Speeds Available

We reserve the right to change specifications as deemed necessary with continuous improvement

NAMAS Calibration Traceability on all Products and Services



Timesync Controls Ltd

Torque Systems

Calibration Services

Electronic Manufacture

Web Tension Control

Unit 6, Beaumont Business Centre, Beaumont Close, Banbury, Oxon OX16 1TN
Telephone: 01295 273994 facsimile: 01295 269695
e-mail: ctimesync@aol.com www.timesynccontrols.co.uk