

# Reaction Torque Sensor

High Accuracy Static Torque Measurement



## Product Overview

JRAGRAU Reaction Torque Sensors are strain gauge based transducers designed for accurate static and quasi-static torque measurement. The rugged construction ensures high repeatability, long-term stability, and reliable performance in industrial and calibration environments.

## Key Features

- Rugged construction
- Strain gauge based measurement
- High accuracy and repeatability
- Import substitute
- Suitable for continuous industrial use

## Technical Specifications

Capacity	5, 10, 20, 50, 100, 200, 500, 1000, 2000 & 5000 Nm
Sensitivity	2 mV/V $\pm$ 1%
Non-Linearity	0.02 % F.S
Repeatability	0.02 % F.S
Hysteresis	0.02 % F.S
Creep	0.02 % F.S., 30 min
Zero Balance	$\pm$ 0.5 % F.S
Zero Temp Coefficient	$\pm$ 0.002 % F.S / °C
Rated Output Temp Coefficient	$\pm$ 0.002 % F.S / °C
Temp Compensation Range	-10 °C to +60 °C
Safe Temp Range	-30 °C to +80 °C
Output Resistance	350 $\Omega$ $\pm$ 1 $\Omega$
Input Resistance	380 $\Omega$ $\pm$ 10 $\Omega$
Insulation Resistance	> 5000 M $\Omega$
Recommended Supply Voltage	5–12 V (DC/AC)
Maximum Supply Voltage	20 V DC
Safe Overload	150 % F.S
Ultimate Overload	300 % F.S
Cable	4 core silver plated shielded, 2 m

## Applications

- Testing machines
- Food, paper and textile industries
- Automotive industries
- Civil engineering
- Steel and cement plants
- Hydraulic presses
- Calibration laboratories