

# REACTION TORQUE SENSOR

## PRODUCT DATASHEET



### HIGH ACCURACY TORQUE MEASUREMENT

The Jragrau Reaction Torque Sensor is a strain gauge based transducer designed for precise static torque measurement in demanding industrial and calibration environments. Its rugged construction ensures long-term stability, high repeatability, and reliable performance across a wide range of torque capacities.

### KEY FEATURES

- Strain gauge based torque measurement
- High accuracy with excellent repeatability
- Rugged industrial construction

### APPLICATIONS

- Testing and calibration machines
- Automotive and drivetrain testing
- Hydraulic presses and industrial torque measurement

### TECHNICAL SPECIFICATIONS

PARAMETER	METRIC (SI)
Capacity Range	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 Temperature Coefficient	$\pm$ 0.002 % F.S./ $^{\circ}$ C
Rated Output Temperature Coefficient	$\pm$ 0.002 % F.S./ $^{\circ}$ C

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### ELECTRICAL & ENVIRONMENTAL

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- High insulation resistance
- Wide operating temperature range

**Temperature Compensation Range:** -10 °C to +60 °C

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**Safe Temperature Range:** -30 °C to +80 °C

### ELECTRICAL CHARACTERISTICS

LABEL	VALUE
Input Resistance	380 Ω ±10 Ω
Output Resistance	350 Ω ±1 Ω
Insulation Resistance	> 5000 MΩ
Recommended Supply Voltage	5–12 V DC/AC
Maximum Supply Voltage	20 V DC