

RT100 Rear Wheel Drive Torque Sensor

The RT100 Rear Wheel Drive Torque Sensor offered by Teledyne Instruments is a testing tool used by automotive engineers to obtain an accurate and response real-time torque signal from the driveline. The system can be installed on any size shaft and is completely weather-proof.

There are no bearings or slip rings to wear out. All rotating electronics and instrumentation are enclosed in a tough, chemical-resistant injection molded polymer case that projects 0.6 inches radially beyond the shaft OD. The collar is lightweight and does not present balance problems at high speeds. Placement of the stator/antenna head is very forgiving, allowing for significant suspension movement with respect to the collar.

A front panel switch allows the user to select between 0+/-5 to 0+/-10 VDC and a gain vernier is available for finer adjustment. The control box has a remote shunt switch, allowing the user to perform shunt calibration from inside the vehicle. Once setup, the RT100 provides the user with a truly "hands off" means of obtaining a responsive analog signal.

Teledyne Instruments offers turnkey installation of the RT100 to customer shafts along with an N.I.S.T.-traceable calibration certificate.



Technical Data	RT100	Features	Applications
Frequency Response	100 & 1000 Hz — user selectable	All-Weather Operation	Transmission Development
Overall Accuracy	0.5%	No Outboard Slip Rings or Wiring	Engine Development
Output Signal	0 to $\pm 5V$ & 0 to $\pm 10V$ DC	User Selectable 100 & 1000 Hz Frequency Response	Powertrain Torque Monitoring
Power Supply	12 VDC & 115 VAC	Remote Shunt Calibration	Traction Control
Collar Size	0.6" Radial Projection, 3-5" Wide	User Selectable Scaling	Racing Vehicles
Temperature Compensated	20 to 80° C	Non-Contact Data Transfer	Fleet Testing
Optional Compensation	-40 to 120° C available	Unattended Operation	Customer Use Testing
		N.I.S.T. Traceable Calibration	
		Turnkey Installation	