

AT100 CV Shaft Torque Measurement System



Key Features

- Low profile for space constrained FWD applications
- All weather operation
- No components or wiring outboard of wheel
- Digital data transfer for a clean signal
- Temperature compensated output

- Remote shunt calibration
 capability
- Scalable analog output
- User selectable frequency response
- Portability to other shafts by Teledyne Instruments
- No batteries or slip rings
- Racing and dynamometer units available

All Weather, Non-Contacting Measurement of Torque on Test Vehicles with CV Shafts

CV shaft torque is often difficult to obtain because of limited space in this very hostile under-vehicle environment. The AT100 uses non-contact, digital data transfer technology to provide the user with a clean and responsive torque signal. Power is inductively supplied to the rotating collar eliminating the need for batteries.

Specifications

Stationary Electronics

AT100 Rotating Electronics (Collar)

Torque capacity	Dependent on shaft size, typically ± 2k – 5k ft-lbs
Calibration range	0-6000 ft-lbs (8100 Nm)
Operating temperature range	-40 to +85C, -40 to +120C available
Physical size	2.2" OD x 2.5" W
Environmental concerns	Completely weatherproof sealed housing/bearings
Maximum speed	5500 RPM (consult factory for higher speeds)

Applications

- Transmission development
- **Engine development**
- Powertrain torque monitoring
- **Traction control**
- Fleet & customer-use testing
- Racing vehicles tuning

Combined accuracy 0.5% FS NIST Traceable Interface to collar Serial Digital Output signal 0+/-5, 0+/-10 V (scalable) Sample rate 27,000 s/s System frequency response 2, 20, 200 or 2000 Hz (-3dB, user selectable) Input power requirements 9 to15 VDC, 0.8 amp (1.8 amp startup surge) Operating temperature range 0 to +50C 7.5"W x 7.5" D x 2.0" H Physical size

508-748-0103 www.teledyne-ts.com

For more information, please visit our website or email sales_testservices@teledyne.com

© 2020 by Teledyne LeCroy Test Services. All rights reserved. Specifications, prices, availability, and delivery subject to change without notice. Product or brand names are trademarks or requested trademarks of their respective holders.