

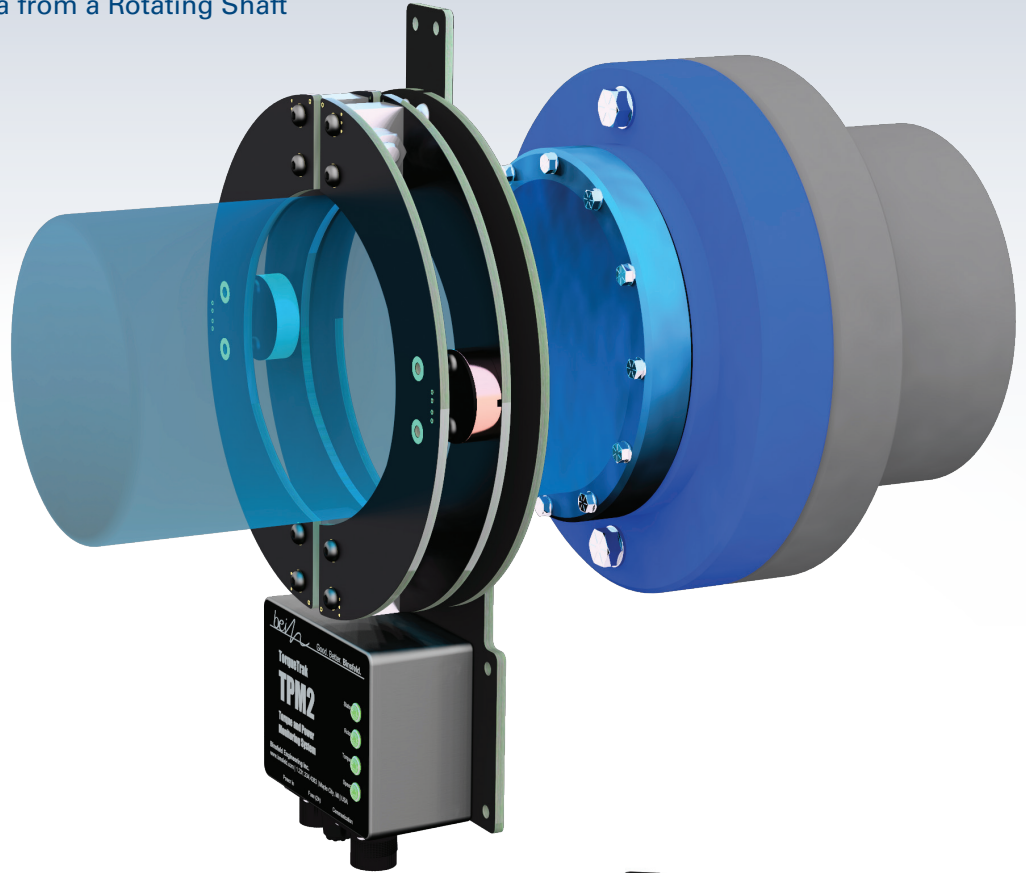
TorqueTrak TPM2

TORQUE AND POWER MONITORING SYSTEM

NEW

Continuous Torque and Power Data from a Rotating Shaft

The TorqueTrak Torque and Power Monitoring System (TPM2) is a rugged precision instrument designed to measure torque and/or power on rotating shafts in real time. The TPM2 uses RS422 full duplex, point-to-point serial interface communication.



FEATURES

Easy Installation

Rotating Collar and Stationary Ring are split and bolt together around the shaft. No machine disassembly or shaft modification is required.

Robust Construction

Sturdy hardware and electronics, built for demanding environments.

Reliable Operation

Inductive power and data transfer with generous clearance between stationary and rotating parts. No wear surfaces.

System Status Indicators

Confirm proper operation at a glance. Expedites troubleshooting.

Easy-on Collar

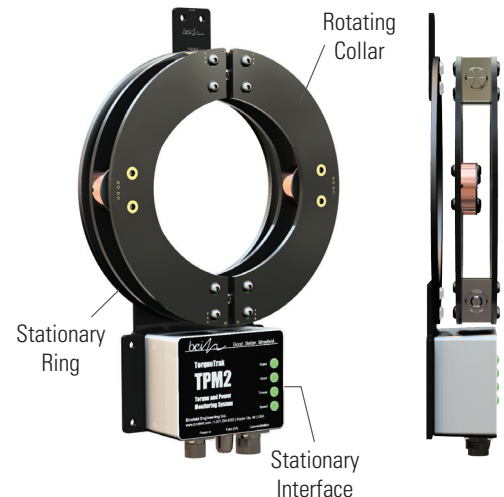
Rotating Collar is designed to accommodate small variations in shaft diameter and clamps to the shaft using standard tools.

Communication Made Easy

High-speed, bi-directional digital communication link interfaces with PC or PLC. User-selectable sample rate up to 4800 samples/second.

Product Support

Backed by Binsfeld's outstanding customer service, before and after the sale.



SCAN WITH YOUR SMARTPHONE
to learn more about the TPM2

TorqueTrak TPM2 | SPECIFICATIONS

System Dimensions, inch (mm)

| Collar OD Dim. "A" | Shaft OD (min) | Shaft OD (max) | Max Shaft Speed (RPM) |
|-----------------------|-------------------|-------------------|--------------------------|
| 5.0 (127) | 0.8 (20) | 1.5 (38) | 9100 |
| 5.5 (140) | 1.0 (25) | 2.0 (51) | 8500 |
| 7.5 (191) | 2.0 (51) | 4.0 (102) | 6900 |
| 9.5 (241) | 4.0 (102) | 6.0 (152) | 5900 |
| 11.5 (292) | 6.0 (152) | 8.0 (203) | 4300 |
| 13.5 (343) | 8.0 (203) | 10.0 (254) | 3800 |
| 15.5 (394) | 10.0 (254) | 12.0 (305) | 3400 |
| 17.5 (445) | 12.0 (305) | 14.0 (357) | 3100 |
| 19.5 (495) | 14.0 (356) | 16.0 (406) | 2800 |
| 21.5 (546) | 16.0 (406) | 18.0 (457) | 2300 |
| 23.5 (597) | 18.0 (457) | 20.0 (508) | 2200 |
| 25.5 (648) | 20.0 (508) | 22.0 (559) | 2100 |
| 27.5 (699) | 22.0 (559) | 24.0 (610) | 1900 |
| 31.5 (800) | 24.0 (610) | 28.0 (711) | 1500 |
| 35.5 (902) | 28.0 (711) | 32.0 (813) | 1400 |
| 39.5 (1003) | 32.0 (813) | 36.0 (914) | 1300 |
| 43.5 (1105) | 36.0 (914) | 40.0 (1016) | 1200 |

For shaft diameters larger than 40 inches (1016 mm) contact Binsfeld Engineering or visit binsfeld.com.

TorqueTrak TPM2 Specifications

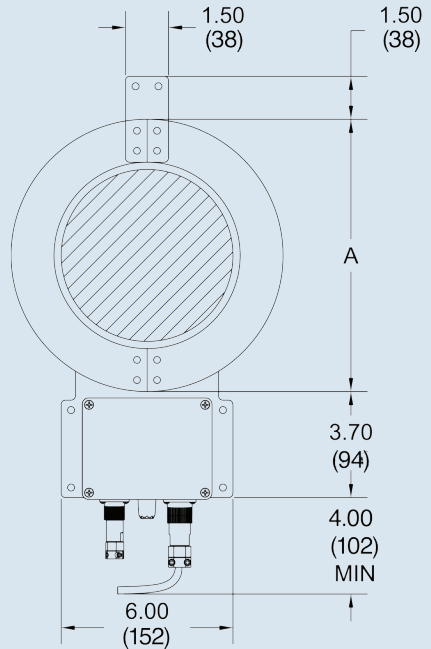
| | |
|-----------------------------|---|
| Power Supply Input: | 10 to 30 VDC @ 10 W (nom), 15 W (max) |
| Torque Sensor Input: | Strain gage bridge, 350 Ω (std), 120 Ω (min) |
| Input Range: | user-selectable from 0.025 to 32 mV/V (125 to 32,000 μ strain with gage factor = 2.0) |
| Shunt Calibration: | 2 user-selectable: 1 mV/V and 0.2 mV/V (350 Ω bridge) |
| Torque Signal | |
| Resolution: | 15 bit (32,768 points) |
| Torque Signal | |
| Accuracy: | Zero error: $\pm 0.1\%$ FS (max), Scale error: $\pm 0.2\%$ (max) |
| Torque Signal | |
| Bandwidth: | 10 user-selectable settings from 3 to 1000 Hz |
| Shaft Speed and | |
| Direction: | Measured once per revolution |
| Resolution: | 15 bit (32,768 points), auto-ranging |
| Communication | RS(EIA)-422 full duplex, up to 1000 ft (300 m) cable run |
| Interface: | IP-67 industrial connector with 10 ft (3 m) cable included RS-422 to USB converter available |
| Baud Rate: | Auto-detectable from 1200 to 460,800 bps |
| Sample Rate: | 10 user-selectable settings from 9.375 to 4800 samples/sec |
| Operating | |
| Environment: | -40 to +70° C non-condensing |

Binsfeld Engineering is pleased to offer assistance in the purchase and application of strain gage and related materials. "How To" videos are available at binsfeld.com. We also provide unlimited phone support. For on-site support or installation services please contact sales@binsfeld.com.

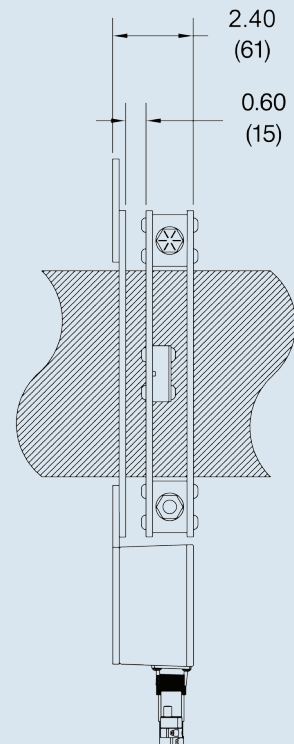
Specifications subject to change without notice.

TorqueTrak TPM2 (6 inch (154 mm) system shown)

Front View



Side View



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