

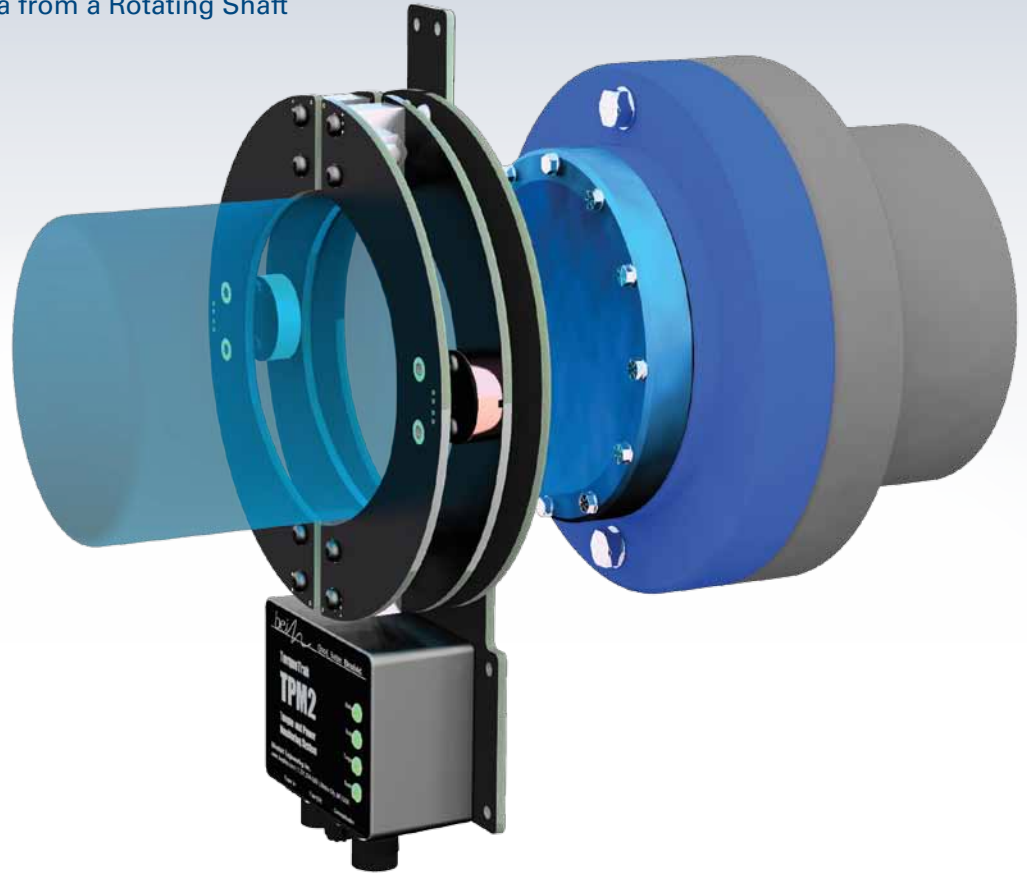
TorqueTrak TPM2

TORQUE AND POWER MONITORING SYSTEM



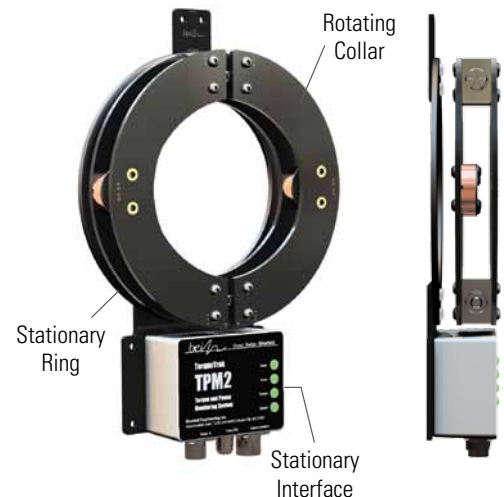
Continuous Torque and Power Data from a Rotating Shaft

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.



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

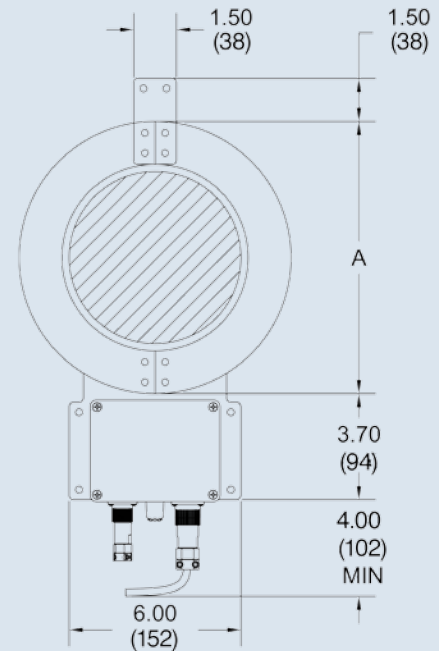
Power Supply Input:	10 to 30 VDC @ 10 W (nom), 15 W (max)
Torque Sensor Input:	Strain gage bridge, 350 Ω (std), 120 Ω (min)
Input Range:	user-selectable from 0.025 to 32 mV/V (125 to 32,000 μstrain with gage factor = 2.0)
Shunt Calibration:	2 user-selectable: 1 mV/V and 0.2 mV/V (350 Ω bridge)
Torque Signal	
Resolution:	15 bit (32,768 points)
Torque Signal Accuracy:	Zero error: ±0.1% FS (max), Scale error: ±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 Interface:	RS(EIA)-422 full duplex, up to 1000 ft (300 m) cable run 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.

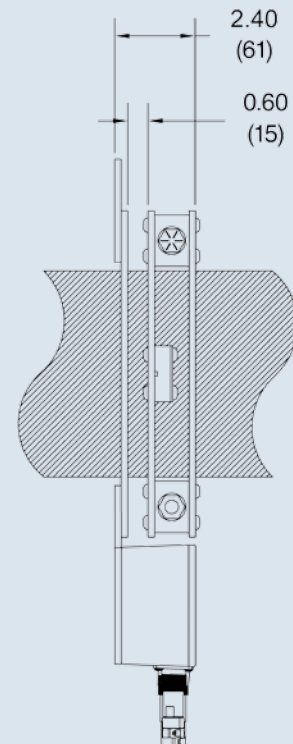
Specifications subject to change without notice.

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

Front View



Side View



8666003B