

Shaft Power Measurement Kits

Datum Electronics Shaft Power Measurement Kit is designed for **measuring power and torque** on drive shafts, in applications, including marine ship shafts, prop shafts and vehicle drive shafts.

The Kit measures the on-shaft torque and **wirelessly** sends data off the shaft receiver, which is also the **optic speed sensor**.



Shaft Power Measurement & Analysis

The Datum Electronics Shaft Power Measurement Kits do more than just measure torque; it can be used to verify power outputs from engines and motors.

The following data can also be measured and analysed:

- **Power Transmission**
- **Torque Trials**
- **Vibration & Torsional**
- **Acceleration**
- **Power Transients**
- **Peak Torque Levels**
- **Power Delivery**
- **Shaft Vibration**

SPMK System Specifications

	Compact	Standard
Shaft Fit Dimensions	30 -500 mm	90 -1100 mm
Electronics Accuracy	0.1%	0.1%
IP Rating	IP67	IP67
Operating Temperature	0 - 70 °C	0 - 70 °C
Data Sampling Rate	10 SPS as standard *	10 SPS as standard *
Data Output	RS485 & USB for torque & speed **	RS485 & USB for torque & speed **
Battery Life	4 days as standard	30 days as standard
Battery Type	PP3 ***	Rechargeable Hot Swap ***
Cable Length	4m as standard	4m as standard

* Faster rates available, please discuss with the team

** Analogue outputs available as an extra

*** N.B. Faster sample rate reduces battery life

System Advantages:

- **Measures Shaft Power, Torque & Speed** as a basic function
- **Easy To Install** with a step-by-step guide
- **Portable & Lightweight Design**
- **Logs, Records & Displays 'Real-Time' Data**
- **User-Friendly Software** (included free of charge)
- **Compatible with 2 Data Channels & Shaft Speed**

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