

Series 430 Shaft Power Measurement Kit

Simple to Use • Easy to Install • Portable and Lightweight

To Fit Shafts From 30mm – 1100mm

The Datum Electronics Series 430 Shaft Power Measurement kit is designed to measure the on-shaft torque for trials applications on rotating shafts. It can be used for simple testing of power levels or as a key tool within extended trials to assess fuel efficiency or performance improvements



The system is designed for measuring power and torque on drive shafts, applications including marine ship shafts, prop shafts and vehicle drive shafts. The trials kit measures the on-shaft torque and wirelessly sends this data to the off shaft receiver which is also the optic speed sensor. The data is outputted via USB to a laptop/netbook to our free software, PowerKit. The Torque, Speed and Power can then be viewed or logged as required

Datum Electronics is a leader in the design and manufacture of torque and power measurement products and systems. The Shaft Power Measurement Kit is one of a number of standard solutions available; the companies also manufactures modular and custom solutions and are always pleased to discuss these options with you

SPMK Specifications

	Compact	Standard
Shaft Fit Dimensions	30 - 500mm	90 - 1100mm
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 For faster rates please discuss	10 SPS as standard For faster rates please discuss
Data Output	RS485 & USB for Torque and Speed Analogue available as an extra	RS485 & USB for Torque and Speed Analogue available as an extra
Battery Life	4 Days as Standard	30 Days as Standard
Battery Type	PP3 N.B faster sample rate reduces battery life	Rechargeable Hot Swap N.B faster sample rate reduces battery life
Cable Length	4m as Standard	4m as Standard

Measurement & Analysis

The Datum Electronics Shaft Power Measurement Kit does 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 analyzed

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



System Advantages

The main advantage of the Shaft Power Measurement Kit is the simple and easy installation process and ease of operation. The Kit comes in three main components making this application easy enough install, set up, test and operate and re-use where necessary.

With the aid of its installation disk; the software can be simply installed onto all modern Microsoft operating systems. The free software that is supplied provides live Torque, Speed and Power as standard which can be imported into Microsoft programs such as Excel for future data logging.

- Measures Shaft Power, Shaft Torque & Shaft Speed as a basic function
- Easy to install with a step-by-step guide
- Logs, records and displays 'real time' data
- Portable & lightweight design
- User Friendly software which is included free of charge
- Compatible with 2 data channels and shaft speed

For More information on the Datum Shaft Power Measurement Kit please contact Datum Sales Team on + 44 (0)1983 282834 or email web@datum-electronics.co.uk