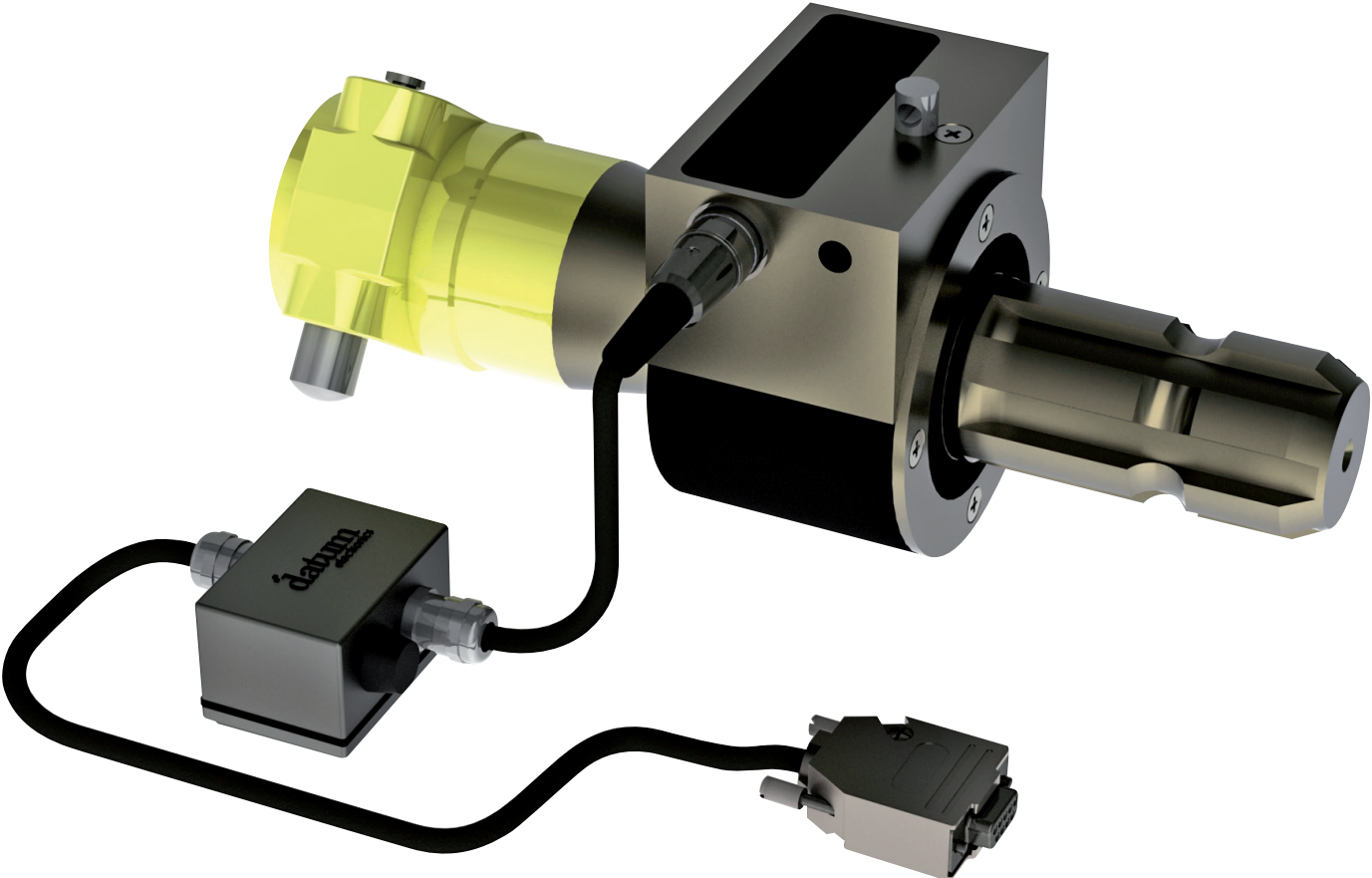


**PTO 420 SERIES SHAFT TORQUE & POWER MONITORING SYSTEM
PRODUCT OVERVIEW**



vetec

425 SERIES PTO SHAFT TORQUE AND POWER MONITORING SYSTEM



What is it designed to do?

Series 425 PTO (Power Take Off) Shaft Torque and Power Monitoring System will monitor and log the torque, shaft speed and transmitted power accurately when testing new systems driven from all standard PTO Shafts.

The tractor's PTO or stub shaft transfers power from the tractor to the PTO-driven machine or implement. Power transfer is accomplished by connecting a drive shaft from the machinery to the tractor's PTO stub shaft. Common examples include elevators, grain augers and silage blowers. The PTO and drive shaft rotates at 540 rpm (9 times/sec.) or 1,000 rpm (16.6 times/sec.) when operating at full recommended speed. At all speeds, they rotate in proportion to the speed of the tractor engine.

Measurement and Monitoring

Efficient measurement and monitoring of this power can be a useful tool in research and analysis into the performance of a tractor transmission. It highlights efficiency savings measurement and control.

SYSTEM ADVANTAGES

PTO series 425 system performance and benefits:

- Power Monitoring
- Robust Design for use in field applications
- IP 65
- Easy Installation
- Accurate Results (0.5% Accuracy)
- Direct USB Interface into PC or laptop

SYSTEM OUTLINE

Non-contact transmission

The PTO series 425 is a contactless rotary torque transducer. The transducer measures torque strain in the shaft via an on-shaft microprocessor circuit, which also measures shaft rotational speed.

The torque and speed data is transmitted to the stationary part via a contactless method and is transmitted to the control unit. The control unit has an RS232 data connection which can be connected to a Laptop or PC running 'TorqueLog' software which allows the display and logging of Torque, Speed and Power data.

The Series 425 PTO System has a non-contact transmissions system that provides a digital output directly proportional to Torque. Supplied as a complete transducer with bearings to support the stator unit, this robust design gives performance data by actual measurement on the rotating drive shaft. It is suitable for most power take off applications.

The PTO system has a female coupling on one end and a male fitting on the opposite end. The female end is coupled to the male end of the application. The PTO system acts like an extension adaptor, with the male end replicating the male end of the application. The torque and speed signals are transmitted from the shaft to a static cover assembly.

Clockwise/Anti-Clockwise Measurement

Measuring torque in both directions, clockwise and anti-clockwise the system provides accurate readings of Power, Torque and Speed logged to a DUI. If required, the system can also be adapted to record and analyse the data onto a PC or laptop with our TorqueLog software.

SYSTEM ITEMS SUPPLIED

Included as standard with the PTO Transducer:

DESCRIPTION	QUANTITY
PTO Transducer	1
PTO Transducer to Interface Cable	1
Datum Universal Interface	1
Universal Interface USB cable	1
Universal Interface Power Supply - 110-230Vac	1
Universal Interface power lead 2mts with open cable ends for connection to a 24Vdc Aux supply.	1
Test Certificate	1