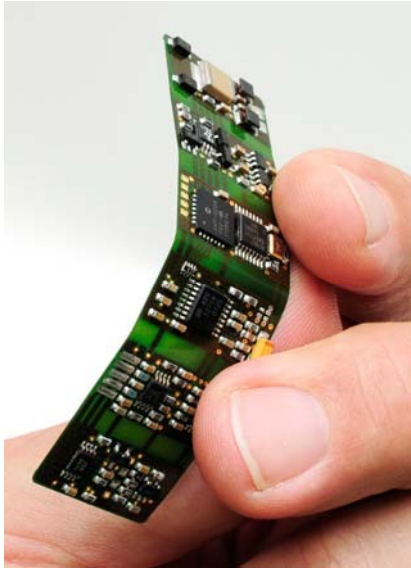


TEL1-PCM Flex

Flat & Flexible Transmitter for Torque Measurement



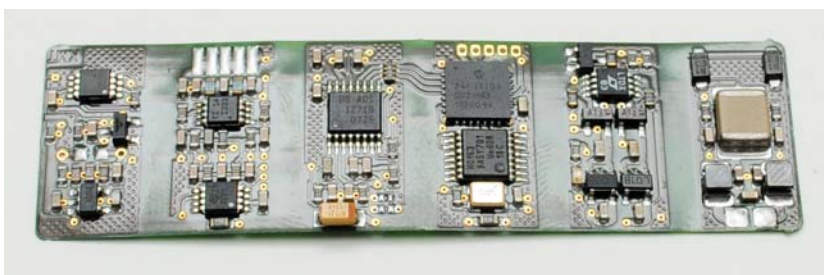
- Torque measurement applications in restricted spaces
- Suitable for high rpm shafts
- Less than 2 mm high
- Operating temperature up to 85°C
- Inductive power supply – no batteries

Torque now measured in confined spaces: The new TEL1-PCM Flex

The new transmitter electronics TEL1-PCM Flex couples the efficiency of the existing TEL1-PCM transmitter with new flexibility. With a maximum overall height of less than 2 mm, the rotor electronics unit is extremely flat. Mounted on a flexible, foil substrate its space-saving design enables it be easily applied to rotating shafts or similar machine parts. The rotor electronic includes the sensor supply, signal processing and the transmitter for the contact less data transmission of the measured signal. The low-profile TEL1-PCM Flex is also ideally suited for applications involving high rotational speeds. Supplementary the on-board inductive power supply ensures continuous and reliable measurements from the rotating shaft.

TEL1-PCM Flex Rotor Electronics

Today it's more important than ever to have reliable, detailed information about torque, vibration or other feedback signals by metering the different types of applications. The telemetry system TEL1-PCM Flex helps you to capture this data even from rotating applications. A very small rotor electronic, installed directly on the shaft captures, conditions and transmits the measuring data to an inductive Powerhead (Pickup). After this the information can be reproduced on the output of a stationary Decoder. Because it's easy to install and it can be powered inductively or with battery, it's a real all-rounder for measurements on rotating machinery. There's no easier way to run wireless data transmission!



Extremely flat & flexible: The New Rotor Electronics TEL1-PCM-STG-Flex

Technical Data

TEL1-PCM Flex

Standard Temperature	Range -10°C to +85°C
Sensor Input	Strain gage 350 Ω to 1 kΩ
Measurement Accuracy	0.2 %
Amplifier Gain Range	250 to 8.000 (in steps 250-500-1000-2000-4000-8000)
Sensor Supply	+4 V (stabilized)
Signal Bandwidth	dc to 1.2 kHz (-3 dB)
Transmission	inductive
Dimensions (l x b x h)	70 mm x 20 mm x 2 mm (incl. solder pads) flexible PCB
Minimum Bending Radius	15 mm
Weight	<2 grams

TEL1 – PCM – FLEX BRIDGE CONNECTIONS

