TPBB-40 + VKS-0180

3 axes. Captured at once.



The complete measuring chain for 3-axis force measurement

The TPBB-40 3-axis force sensor measures F_x, F_y and F_z – the FPGA-based VKS-0180 measuring system acquires all axes exactly simultaneously at up to 1 MHz. Sensor, electronics and software: matched and from a single source.

No time offset
F_x, F_y and F_z sampled simultaneously – no multiplexing.

Perfectly matched
Sensor and measuring system designed together.

Factory configured
Channels and calibration set up at the factory.

Readings in newtons
Live display, recording and export.

Room to grow
5 free channels, e.g. for displacement or pressure.

Single source
One contact for the entire measuring chain.

TPBB-40

3-axis force transducer with parallel bending beams – stainless steel, or aluminium for lower force ranges. Tailored to your application.

Measuring axes	X, Y, Z (F_x, F_y, F_z)
Principle	Strain gauge, parallel beams
Bridges	3 × full bridge (one per axis)
Bridge resistance	$R_i = R_a = 350\ \Omega$
Output signal	Bridge (mV/V) or current*
Material	Stainless steel; aluminium for low forces
Rated force, size	customised

* via external measuring amplifier

VKS-0180

High-speed FPGA-based data acquisition. Each channel is preconfigured at the factory to your requirements.

Channels	8, sampled simultaneously
Input types	Voltage or current, per channel
Sampling rate	up to 1 MHz
Resolution	16 or 24 bit (module-dependent)
Accuracy	0.01 % FS
Interfaces	USB and Ethernet
Software	PC software, export in several formats

The measuring chain: TPBB-40 › VKS-0180 › PC software Force in newtons – live, recorded, exported.

Interested in the measuring chain? We configure the TPBB-40 and VKS-0180 for your measuring task.

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