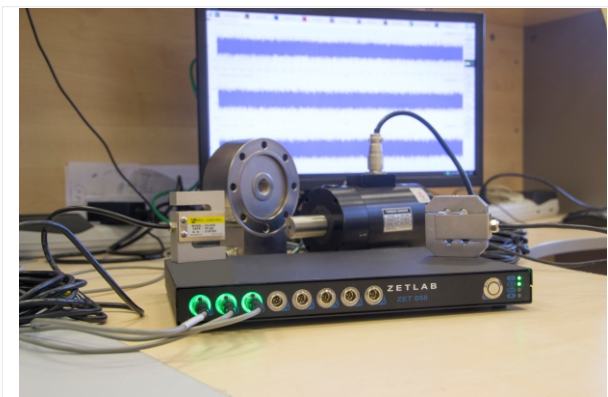# ZETLAB

STRAIN GAUGE MEASUREMENT SYSTEM ZET 058

- Software and hardware suite based on 8-channel controllers

- Compatibility with various strain-gauge transducers and voltage output sensors

- Power supply of the transducers with DC and AC voltage

- Parallel data processing by a great number of channels

Strain gauge measurement systems are represented by hardware and software suite based on multi-channel data acquisition system ZET 058 and ZETLAB TENZO software package.

BASIC TECHNICAL CHARACTERISTICS
of the strain-gauge measurement system ZET 058

TECHNICAL SPECIFICATIONS	
Maximal input voltage (amplification ratio =1)	±10 V
Dynamic range	130 dB
Carrier frequency	from DC up to 20000 Hz
Non-linearity, max.	0,02 %
Temperature drift	±5 µV/10°C
Bridge circuit power supply voltage	DC: 10...10000 mV; AC: 10...7000 mV

OPERATIONAL SPECIFICATIONS	
Dimensions	280 × 200 × 35 mm
Weight	1 kg
Power supply network frequency	49,5 - 50,5 Hz
Power supply voltage	198 - 242 V
Consumed power	Max. 8 W
PC communication interface	Ethernet

APPLICATION SPHERES
of ZET 058 strain-gauge measurement system

Strain gauge measurement system ZET 058 can be used for static and dynamic measurements of loads, deformations, torque, torsional oscillations, temperature and other physical values.

Strain gauge measurement systems of ZET 058 series enable power supply of the primary transducers both with DC and AC voltage, which allows to use them for data acquisition and signals processing in the course of static and dynamic measurements.

When used together with ZETLAB Software, the system allows to conduct data acquisition process in real-time mode by several channels simultaneously. Available connection schemes for the strain gauge cells and transducers are as follows: ¼-bridge, ½-bridge and full-bridge (the terminal cable is included into the delivery scope of the system).