# FOOT PLANTAR PRESSURE SENSOR

# Łukasiewicz – IMiF

### OUR UNIQUE SOLUTION

- A modern shoe insert for testing the foot plantar pressure in natural conditions.
- Provides comprehensive knowledge of foot motor skills and the whole body posture.
- Contains an accelerometer that determines the position of the whole body.
- Made of the best-suited materials which enable working with polymer pressure sensors and ensure adequate hygiene.
- Size can be reduced with the miniaturization of the electronics for the measuring and transmitting systems.
- Suitable for use in any sports footwear.

#### ADVENTAGES OF PIEZOELECTRIC SENSORS FOR WEARABLE MEDICAL DEVICES

- Mechanically flexible
- Lowcost
- Excellent sensitivity
- Linear response over a wide pressure range

## FEATURES

- Low price combined with high quality and reliable performance
- Easy to use can be automatically calibrated by the user
- Modern approach can be used with mobile devices for telemedicine

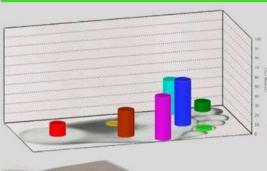


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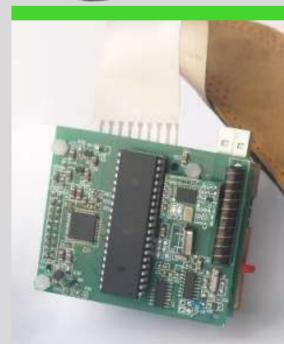
# HOW DOES IT WORK?

Eight piezoelectric sensors read out the force, which the feet press on the ground.

The sensors are located at the spots corresponding to the anatomical parts of the foot. It ensures the correct measurement of the force which, according to biomechanics, is the result of the foot-ground interaction. By using two shoe inserts any posture defects can be determined and therefore corrected through effective rehabilitation. GT LT MT1 MT MT MM LM H







#### ANATOMICAL FOOT AREAS