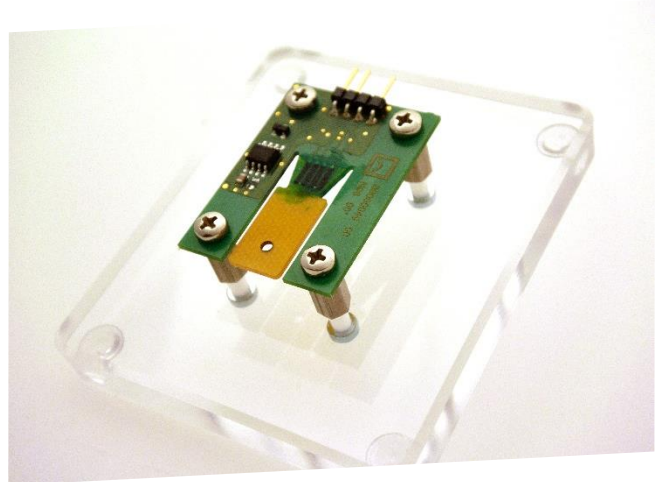




Information sheet

Polymer Strain Gage (P-DMS)

- > Polymer paste screen printed to PCB board
- > Captures strain and compressive deformations
- > Small deformations cause change in the electrical resistance
- > Polymer strain gage on populated PCB board
- > Direct integration into PCB design
- > Cost-effective solution



Further information regarding the operating principle can be found in our [video](#) and [website](#).

Your advantages:

- > long-term experience in the field of printed electronics
- > Integration of the polymer strain gage technology at an early stage of development
- > Cost of optimization starts early during development phase
- > In-house development, design and manufacturing
- > Joint-development, tailored to customer needs
- > Prevention of process critical adhesive bonding of polymer strain gage on substrate
- > No contact (bonding) of the polymer strain gage necessary

In series:

Printed polymer strain gage on PCB

- > Polymer strain gage in a piano (combination of piano and electric piano)
- > According to an idea of Mario Aiwasian, Founder of ALPHA Pianos GmbH (www.alpha-pianos.com)
- > Integrated in outstanding electronic musical instruments of the highest quality, with unique technical properties and exceptional design

Development and Innovation:

Printed polymer strain gage on spring steel

- > [Smart spring technology](#) wins innovation award at Blechexpo 2015

Possible applications for pressure-sensitive pastes:

- > As sensor for pressure distribution in shoes
- > [Keystroke velocity sensitivity](#) for [electric piano](#)
- > [Musical instruments](#) such as electrical guitar or DJ control unit with pressure sensitive keys

