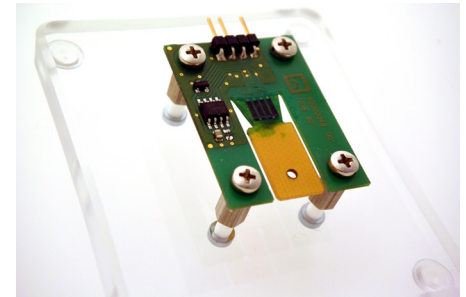


INFORMATION SHEET

Polymer Strain Gage (P-DMS)

- Polymer paste screen printed to a 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 the 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 instrument 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 electric guitar or DJ control unit with pressure sensitive keys

