

The PRIASED™ System

Automatic Sensor and Sensitivity Detection

- hardware code inside the sensor
- mixup of sensitivities not possible
- robust and temperature resistant solution
- intelligent signal processing with PRIAMUS charge and temperature amplifiers
- signal output directly in [bar], [psi]
- automatically the highest signal resolution possible
- connect and measure!

Description

PRIASED™ is the abbreviation for 'PRIAMUS SENSITIVITY DETECTION'. The PRIASED™ system is a concept for the automatic detection of piezoelectric sensors and their sensitivity.*

The electronics in the PRIAMUS charge and temperature amplifiers read and interpret a hardware code which is located inside the sensor.

Opposite to alternative methods – such as the storage of the sensitivity data in a chip – this procedure has significant advantages:

- Because the code is located inside the sensor itself (and not in the connecting cable or cable connector) the information cannot be mixed up respectively exchanged. A memory chip in the connecting cable or in the connector can be exchanged which might lead to a mold crash.
- The hardware code inside the sensor is robust and temperature resistant. A memory chip however is only temperature resistant up to a certain point. In case a chip is heated - which can be expected while used around an injection molding machine – it loses its memory. This however leads to a mold crash again.

According to the measured sensitivity the electronics interpret the measured signal and select one of maximum 8 charge ranges (auto ranging). This way the system uses always the highest possible signal resolution while the user must not pay attention to sensor specific adjustments such as the setting of sensitivities.

* patent pending

