

## Newsletter No. 5

Especially in these rather quiet months with not many publications before the K-exhibition in Düsseldorf we are pleased to introduce you some new products – this time from the field of service and test.

### **New: Sensor tester for on-site inspection**

The PRIAMUS product range covers a wide range of cavity pressure and cavity temperature sensors. Especially in the area of quality assurance however the functionality of these sensors must be proofed first before they are used.

In order to check the sensors on-site a new and inexpensive test device for industrial use was designed which provides several functions.



The battery powered sensor tester type 8950A checks the insulation of piezoelectric sensors and connecting cables on-site. The respective cavity pressure sensor simply gets connected and the insulation is determined by the push of a button. If the required limit value will not be reached through contaminated cable connectors, the connection must be cleaned and checked once again. This function is available for all piezoelectric sensors.

PRIASED™ sensors contain a hardware code inside of the sensor by which the sensor type and its sensitivity are automatically identified. Especially for these kind of sensors it is possible to check the reading of the hardware code. Proper functioning will be displayed by a LED. This way it can be easily checked if the measuring chain actually works up to the cavity pressure sensor, which is not possible with conventional cavity pressure sensors without hardware code.

Furthermore the functionality and polarity of thermocouples types J, K, L and N can be inspected. Depending on the deflection of the pointer e.g. the correct polarity of the connecting cable can be determined. The thermo couples can be connected by a Lemo connector or by open wires via clamp connector.

**New: Inspection tool for sensor bores**

Fixed inspection tool



Control pin inserted

A cavity pressure sensor is only as good as the mounting bore in which it is installed. If the bore does not comply with the required tolerances – especially with very small sensors – this will lead to so called force shunt. In this case the sensor loses sensitivity because the sensitive tip of the sensor touches the sensor bore. This however will lead to incorrect measuring results.

A simple method to check the sensor bore is to screw-in a so called inspection tool. Similar to a ball-pen the position tolerance of the bore can be checked by pushing a spring loaded check pin. If the pin touches the wall of the bore or if the pin cannot be screwed-in from the beginning the bore must be reworked. Inspection tools are available for cavity pressure sensors with a front diameter of 4 mm (type 6591A) and 2,5 mm (type 6593A).

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