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Miniature cavity pressure sensors – the next generation

Cavity pressure sensors are the basis for mold setup, process monitoring and process control in injection molding. Very often however the dimensions of the standard types available are just too big to fit into the desired locations.

Very small cavity pressure sensors could save this problem, but they are difficult to install due to the required accuracy of the bored dimensions. Sensor side load and a loss of sensitivity will result in high variations of the measured signals.

PRIAMUS introduces a new series of miniature cavity pressure sensors with several new features at a time. These very small sensors are protected by a miniature housing and calibrated only after they have been assembled. The patented PRIASAFE™ design protects the sensor from side load sensitivity loss effects which are entirely eliminated. Sensor installation even of very small sensors is therefore much less critical than it used to be, and so are the requirements to the accuracy of the bore dimensions.

In addition a hardware code provides all sensitivity information to adjust the according amplifiers automatically.

This new generation of miniature PRIASAFE™ cavity pressure sensors is available as two basic versions:

for the first time ever the cavity pressure sensor must not be fitted with a space demanding mounting nut, but it comes with an integrated thread for sensor installation. Alternatively an even smaller version for sleeve installation is available. Due to the compact design in both cases the length of the sensors could be significantly shortened compared to standard sensors.

PRIASAFE™ miniature cavity pressure sensors are not only extremely small, but also safe, secure and easy to use.

The sensors will be presented at NPE, booth #4270

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