



## Press Release

Schaffhausen, 1 September 2005

### **PRIAMUS – The Pioneer in Cavity Temperature**

Cavity temperature measurement has been very often undervalued in the past. Only in the past few years applications like the PRIAMUS Fill control system or the automatic switchover to holding pressure have proved how effective cavity temperature can be used for quality assurance in injection molding.

For this purpose PRIAMUS cavity temperature sensors, which are different in many ways from standard thermocouples, were used.

The properties required are contradictory at first sight: robust handling, extreme fast reaction times and high amplitudes of the measuring signal.

The PRIAMUS cavity temperature sensors, having a very small design, meet these requirements in one sensor. The technology was even more improved with the latest two new sensor types. All new and so far unique on the market is a cavity temperature sensor with a machinable sensor front which can be used in an even broader field of application.

Standard thermocouples are usually only calibrated statically. However, because of the fast reaction times when the plastic melt hits the sensor it is much more important to determine the dynamic behaviour of the sensor.

PRIAMUS cavity temperature sensors are therefore the only sensors of this kind which are calibrated dynamically after manufacturing and which are tested both regarding reaction time and amplitude. Therefore all PRIAMUS cavity temperature sensors are provided with a serial number and all sensors perform the same way within a certain tolerance.

Cavity temperature and cavity pressure sensors should be installed separate from each other – e.g. near the end of fill and near the gate – because only there they can be useful for monitoring and control. Also a combined design should be avoided in view of technical measurement reasons because a big sensor body will only lead to very slow signals with small amplitude.

The very small, robust and very fast cavity temperature sensors however are comparably inexpensive and can be easily replaced or repaired in case of broken cables.

For the installation into mold inserts quick disconnects are available for all cavity temperature sensors.

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