



## Press Release

Schaffhausen, 24 April 2003

### **Mobile DAQ – Mobile Data Acquisition around the Injection Molding Process**

Mobile DAQ is the computer independent data acquisition unit for the mobile process analysis and monitoring system 'PRIAMUS Tool Box'. The system includes several software modules for the inspection of the machine control, for the machine independent mold setup, for the measurement and analysis of the energy consumption as well as for process monitoring.

Conventional mobile data acquisition systems normally use PCMCIA-boards which are **unsuitable** in industrial environments because they do not withstand permanent plugging of the cable. Very often these systems struggle with driver problems because they have to be adjusted to the respective laptop.

The new modified Mobile DAQ includes a USB data acquisition system which acquires the measuring signals fail-safe and completely independent from the laptop or PC used. The device as such is designed for the connection of maximum 16 measuring signals of which 2 temperature amplifiers are already integrated. 4 additional channels are used as so called status signals (start injection, switchover, end of holding pressure and end of cooling time) for automated process analysis. In order to simplify the system as much as possible a fix allocation of some signal connections has been determined. However it is also possible to connect all one and multi channel PRIAMUS charge and temperature amplifiers by separate interfaces. A real technical innovation – and presently unique on the market – is the option to interpose the Mobile DAQ simply between the injection molding machine and amplifiers which already have been installed (neutral operating mode). In this case the machine still controls the amplifiers while the Mobile DAQ acquires and monitors the signals simultaneously. Especially for service requirements this makes life a lot easier. Alternatively PRIAMUS charge and temperature amplifiers can be controlled directly by the Mobile DAQ (active operating mode) in order to guarantee machine independent operation.

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