



## **Press Release**

Schaffhausen, 28 March 2003

### **Multi DAQ – a universal amplifier unit for injection molding**

Multi DAQ stands for universal signal conditioning.

In order to monitor, control and document the injection molding process the according measuring signals must be processed first. Depending on the application this is a matter of any combination from cavity pressure, cavity temperature and machine signals.

Especially this multitude of possible combinations makes it very often difficult or even impossible to find the right number and kind of signal amplifiers with a compact design. The „Multi DAQ“ amplifier unit can be individually equipped with 2-channel modules for cavity pressure, cavity temperature and machine signals (voltage) for up to 16 channels. This very light and compact device can be configured ideally for any application whereby the equipped modules are automatically detected via a code.

Besides 4 measuring ranges the charge amplifier modules provide an automatic sensor and sensitivity detection for PRIASED™ cavity pressure sensors. The signals are therefore measured directly in [bar] or [psi]. The single measuring ranges are either adjusted by a jumper or via code from the injection molding machine or data acquisition system.

The temperature modules provide a number of switches which are important for various applications: as soon as the plastic melt reaches a cavity temperature sensor, a switch signal will be provided. In case this sensor is positioned at the end of fill it can be automatically switched over to holding pressure and therefore reacted to viscosity changes. In case of several cavities it is possible to use the first switchover signal (e.g. in order to avoid overmolding). For each single temperature signal one individual switchover signal is provided by which the needle valve nozzles can be opened or closed in case of sequential molding controls.

If more than 16 measuring channels are required several Multi DAQ's can be operated simultaneously. The Multi DAQ is an ideal solution as well for mobile as for stationary process monitoring and control systems.

PRIAMUS SYSTEM TECHNOLOGIES AG  
Bahnhofstrasse 36  
CH-8201 Schaffhausen / Switzerland  
[www.priamus.com](http://www.priamus.com)

Christopherus Bader, +41 52 632 2600