



MULTIPOND @ interpack 2011 **What's new?** **Highlights on our stand**

MULTIPOND Stand: Hall 15, Stand A03



Adaptive filter software: **MULTIPOND launches new, adaptive filter software on the market**

Background: The filter software for a multihead weigher calculates a valid weight value from a load cell's digital signal. That is, the increased performance of the software determines the accuracy of the weighing system.

To clarify: During the weighing process the product is transferred to the weigh hopper. Straining the load cell generates a signal that corresponds to the weight of the portion. Unfortunately, additional pulses appear due to dynamic weighing process, which can falsify the result.

These pulses are subject to various factors (impact, natural frequency of the design, etc.). The signal is transformed into a digital signal and now the filter software comes into play. In the process, the best possible compromise between speed and precision is sought.

With the new software MULTIPOND has developed an optimum solution for high speed, weighing precision process and superior reaction to external influences.

Because the program consistently self-adapts, it can react to environmental influences that are altering it and generate process security as a result. This solution has been registered with the EPA for the patent.

The advantages of the new MULTIPOND solution:

- 1. Value acquisition speed increased up to 40 %**
- 2. Marked increase in the number of possible combinations:**
 - Higher performance without "interruptions" (in case of a missing combination)
 - Active savings thanks to minor "give away" – product saving !
 - Even lower standard deviation from the nominal filling weight
- 3. Lower weighing system sensitivity to environmental influences:**
 - Oscillations, vibrations or impact forces originating from the production environment
 - Steady operation possible even in critical installation situations (mezzanines, suspensions, etc.)
- 4. Higher system stability and greatly reduced effort for the operating personnel:**
 - The weighing system automatically corrects errors that occur and may be caused by external factors
 - Demands on the operating personnel are greatly reduced because the system corrects the event practically by itself.

All told, the new software perfects MULTIPOND weighing systems, saves operating costs and product, shortens payback considerably and increases your returns.