

Easy Replacement of Measurement Instruments With G4 Multi-Channel Electronics

Application Process Weighing

Industry Sector Food and Beverage

The Customer

A manufacturer of natural baking ingredients in Germany



Figure 1: Conical mixer with KIS-9

Customer Inquiry

The customer has for many years been using several conical mixers with weighing systems. To measure weights, all mixers were equipped with proven and tested VPG Nobel KIS-9 shear beams. An installed instrument (E-2-WIN) was used to transmit the measurements to the process control system (PCS). This system had for years been running smoothly, but after wear and tear, it was now time to find a replacement solution. The customer was seeking the most cost-effective modern solution without additional on-site weight calibration.

Specifications for the retrofit:

- Simple and quick replacement without production downtime
- Direct connection to the existing PCS
- No additional weight calibration

Solutions and Equipment

To find a solution, an assessment was conducted at the customer site. The required data for the adjusted weight measurements were collected and documented in advance. The new installation should be capable of providing weight values both in analog and digital signals. In accordance with the detailed requirements provided, we decided to select a state-of-the-art G4 multi-channel measuring amplifier with analog 0 mA (4 mA) to 20mA outputs and with an additional Profibus DP interface. This measuring amplifier allows for the connection of all existing mixers (up to eight scales are possible using one instrument), and offers an optimal coupling option to the existing PCS.

BLH / Nobel Weighing Systems
Brands of VPG Process Weighing



Figure 2: Installed G4



Figure 3: G4 version in a din rail design

Customer Comments

The G4 is a quick and perfect solution for replacing the aged product solution E-2-WIN. The G4 is very easy to operate and the large touch display is easy to read. The simultaneous monitoring of the four conical mixers is of high importance in our production. Due to the G4's expansion options, we can integrate our future weight measurements and will save additional investment costs.

"The retrofit to the new G4 was so fast and easy that we decided to use the same system at our second production site."

Click here to open the web version: <http://www.vishaypg.com/process-weighing/case-study/41062/>

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