

DXp-40 diagnostic into Load Cells

Application: Service

Industry Sector(s): Food and Beverage

The Customer

The customer is a major multinational company devoted to brewing beer.

Customer Inquiry

The brew-master was complaining of too much protein in the beer. Hopper is suspended over top of the mixing and cooking area. A grinder operates above the hopper and can take several hours to fill hopper to desired recipe level. A service call to the site was requested to check calibration.

Solutions and Equipment

Existing instrumentation attached to the hopper is the DXp-40 instrument and T3P1 load cell. Cast Iron weights of 500Kg were applied to hopper and calibration was correct. Material was filled into the hopper and allowed to sit for 30 minutes. Using the DXp-40 diagnostics features a mv/v reading was taken before and after 30 Min. the gross weight changed 0.5Kg in 30 Min and all 3 load cells had a decrease in mv/v reading. Further inspection of the lower discharge valve on hopper showed a very fine stream leaking ground malt powder when the valve was fully closed. Although the valve was repaired the previous week it was still not fully closing.

Customer Comments

The DXp-40 instrument's embedded load cell diagnostics enabled detection of very small changes in weight. It was determined by the diagnostics that the load cells were all in agreement that the weight was decreasing in the hopper which provided the answer to the changes the customer was seeing in their recipes. The leaking malt powder after several hours ended up in customer's recipe bypassing the weigh system.

“BLH’s service and product capabilities were able to solve our excessive protein problem”

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