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APPLICATION CASE STUDY



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Guided Wave Radar for Level Measurement of Liquid Cream Cheese Reservoir

Submitted by Von Oliver Niederheiser, Magnetrol International (German Office)

Application:

Level measurement of liquid cream cheese reservoir on a filling/packaging line supplied by a major OEM supplying the food & beverage and Life Science industries to a major German supplier of cream cheese products.

Instrument Quoted:

705-510A-131 & X7MF-E3PN-038 (X= DN40 DIN 11851 process connection).

Problem:

Our customer had huge problems with an E+H capacitance probe which is unable to cope with both product buildup and changing dielectric properties as the filling line changes from one product to the next. All too often, the filling reservoir does not have enough product to fill the programmed throughput, which then leads to a large amount of waste product as pots get underfilled, or not filled at all, and are subsequently rejected by the check weighing system. Recently our customer had employed an operator to manually manipulate the controlling PLC on a permanent basis, a huge cost in terms of man hours, to try and minimize or prevent wastage.

Solution:

Magnetrol supplied a 15" (380mm) long, single rod, GWR probe with DN40 DIN 11851 process connection. This was installed quickly and easily, and then calibrated using PACTware[™]—all in less than 30 minutes.

Result:

Our Eclipse GWR worked flawlessly from the moment it was set into operation as our GWR has absolutely no trouble with changing product or buildup in this application. The customer has successfully run his filling line on all products without the need for any manual intervention, and virtually no product loss attributed to poor level control. By using our Eclipse GWR, the customer has saved a significant amount of money in reduced labor cost and product loss. The return on investment is reported to be measured in weeks because of the improvement in productivity. This success has led to our customer ordering several more probes and we are in discussions to become a framework supplier for level measurement on their Dosimat systems.



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