

ECLIPSE®

APPLICATION CASE STUDY



Magnetrol®
HYGIENIC MEASUREMENT
SOLUTIONS

ECLIPSE®
GUIDED WAVE RADAR



HART®
COMMUNICATION PROTOCOL



Guided Wave Radar for Level Measurement of a Liquid Nutritional Supplement

Submitted by Ed Houchens, Applied Engineering

Application:

Level measurement of a liquid nutritional supplement in a vessel that feeds a reservoir on a filling machine.

Problem:

Level was being measured by a Drexelbrook® capacitance probe. The vessel is a tall narrow tube that feeds product to a high speed filling machine. Product enters the vessel through a side-mounted tee connection. The measurement was unreliable, resulting in improperly filled containers. This resulted in lost production and time while certain containers did not meet spec.

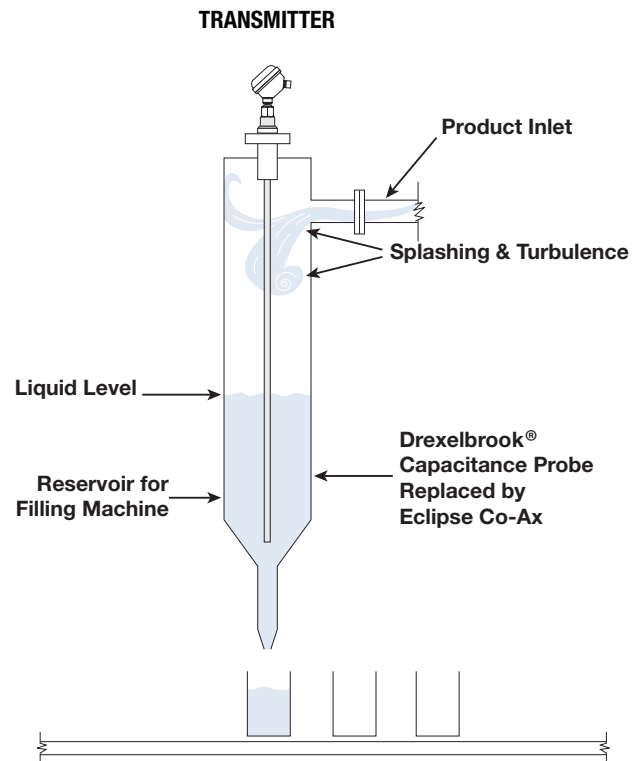
After examining the application with Jim Homoly (Magnetrol Hygienic Measurement Solutions, Business Development Manager), we concluded that the fluid entering through the T-connection was splashing against the probe, thus giving false level readings.

Solution:

This was a perfect application for a Magnetrol Eclipse Model 705 with the coaxial probe. Since the measurement is made entirely within the probe, it is unaffected by splashing or any disturbance outside the probe. Additionally, the fluid is not viscous so that did not cause a concern.

Result:

An Eclipse® with coaxial probe was installed, configured with PACTware™ and worked perfectly from day one. The level measurement was accurate and reliable. The customer was so pleased, he ordered three more for additional fillers plus spares. He asked us to provide start-up assistance and training on PACTware, which provided additional income.



The key to the sale was careful study of the application and analysis of the problem, which allowed us to offer the correct solution. In most cases, an instrument is not faulty but is misapplied. We have established credibility with this customer as a partner, which should result in additional business in the future.



5300 Belmont Road • Downers Grove, Illinois 60515-4499 • 630-969-4000 • Fax 630-969-9489 • www.magnetrol.com
145 Jardin Drive, Units 1 & 2 • Concord, Ontario Canada L4K 1X7 • 905-738-9600 • Fax 905-738-1306
Heikensstraat 6 • B 9240 Zele, Belgium • 052 45.11.11 • Fax 052 45.09.93
Regent Business Ctr., Jubilee Rd. • Burgess Hill, Sussex RH15 9TL U.K. • 01444-871313 • Fax 01444-871317

Copyright © 2011 Magnetrol International, Incorporated. All rights reserved.

PACTware is trademark of PACTware Consortium.
Drexelbrook is a registered trademark of AMATEK.

BULLETIN: 57-224.0
EFFECTIVE: April 2011