



QUADBEAM
TECHNOLOGIES

Industry – Dairy Processing

Application – Phase or Interface

Get control of Product Loss / Control your Efficiencies / Control your Risk / Save Money

Product – Quadbeam Technologies S20 Hygienic Suspended Solids Sensor.

With international milk solids prices forecast to hit record highs, getting control of product loss in the Dairy Industry has never been so important.

Using Quadbeam Technologies Ltd suspended solids sensors provides accurate, reliable and repeatable monitoring. Monitoring that is used by plant managers as part of their performance improvement programs by reducing process waste.

Many plants control phase or interface detection between product and water of the first CIP flush or push when transitioning between products by solely using flow calculations and time. Although an effective method it does not provide a true reflection of what is actually happening.

By including a Quadbeam S20 Hygienic Sensor into the line it is possible to control to a very accurate level phase transition process ensuring that the maximum amount of solids are retained or diverted to a solids recovery system.

Installation

Virtually any process or system that has a level of valuable solids and regular CIP is done or several products are used in the same line are obvious places for savings through solids retention during transition.

The S20 Hygienic Sensor mounts directly into a 3" Triclover fitting, a welding ferrule, gasket and clamp are also supplied.

The MSSD53 transmitter, which has a 5 point linearisation curve, is easily calibrated to relate a 4-20mA output to % solids in the line. This signal can then be feed into the plant PLC or DCS for overall control and monitoring.

Alternatively Quadbeam offers two simpler more economic transmitters in the MSSD33I and MSSD33R. The 33 has only two points of calibration, maximum and minimum points. The MSSD33I has a 4-20mA output that can be connected directly into a PLC or DCS. The MSSD33R has two relay outputs that can be set to predetermined solids levels with the relays activating valves.

Returns

Returns can vary depending on the size of the system where the monitoring is installed.

Returns of around \$150,000pa have been secured when used in large evaporators or large receiving or storage silos.