Volume Based Bin Fill Rate Sensors - Overview

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Bin Fill Rate Sensors - Overview

- Sensor hardware usually installed in bulk bins
- Usually integrated with software to move from milk rounds to optimised rounds
- Large savings claims on collections by suppliers
- Relatively new technology
- Control of assets
- Could be used instead of bin weighing – charging and/or incentives

Bin Volume Fill Rate Sensors – Main Principles (1)

- Fit/fitted under bin lid
- Can be fitted to a variety of bins
- Ultrasonic/infrared sensors
- Temperature, motion/tilt and GPS sensors
- Own battery power supply
- Measure fill/transmit periodically – variable
- Algorithms to prevent false readings

Bin Volume Fill Rate Sensors – Main Principles (2)

- Wireless technology – mobile network
- Software interface
- Reports and trends
- Alerts
- Round optimisation and real time tracking
- Link to in cab technology and other platforms

Providers

- Enevo
- Smartbin/Taylors
- Urbotica U-Dump
- Farsight Netbin
- Enfilade Systems - Fulfill
- Others?

Key Differences Between Products

- Integral vs. retrofitted
- Sensor Types
- Under or on/in Lid
- Reporting Frequency/Settings
- Links to Route Mapping
- Pricing Structures

Other Technology

- Big Belly Litter Bins
- Weight Based Sensors
- Integration with Swipe Card Technology