RFID weighting tag for pallets: accurate inventory information for large SKU items

Key Benefits

- **Accurate inventories** - finer than SKU resolution

- **Fast** stock audits

- **Seamless integration** with existing RFID infrastructure

The Challenge

RFID solutions with item or SKU (Stock Keeping Unit) resolution are generally good enough to maintain accurate information of raw materials and WIP (Work In Progress) inventories.

However, when references are **bulks, fluids, granulate** or similar products stored in bags, drums or barrels, **SKUs tend to be much bigger than the actual usage of SFOs** (Shop Floor Orders) for a single planning cycle time.

As an example, a two ton of powder bag is out-bounded from your raw materials warehouse to fill shop floor orders in your workshop. 100kg are used and discounted from your inventory according to what is stated in SFO´s BOM (Bill of Materials). Once the operation is finished the bag can either return to your warehouse or be kept as WIP.

Now you have a bag which is not two tons but 100Kg less but there is no way you can know how much powder is left there. So far for this material, in terms of RFID, **item = SKU, problem is not solved**.

Things get worse with **audits** and your need to weight all your partially used bags, drums and barrels.

How could you easily inventory the real amount of powder by just scanning a label with a proper device?

The Farsens Solution

Since most of the industry's tracking is done via UHF RFID, Farsens proposal is a **battery-free EPC C1G2 RFID tag** that actually weights the pallets.

The **weighting pallet solution** will return not only the unique identification number of the pallet but also the **weight stuck on that pallet** to an interrogating reader.

www.farsens.com

Accurate inventories

By weighting the goods inside bags, drums and barrels users will move from SKU resolution – which can be in the order of tons of material – to shop floor order resolution and lower – in the order of kilograms.

This is a huge step in inventory processes – which in turn have an important impact in audits and accounting tasks.

Fast and effortless inventories

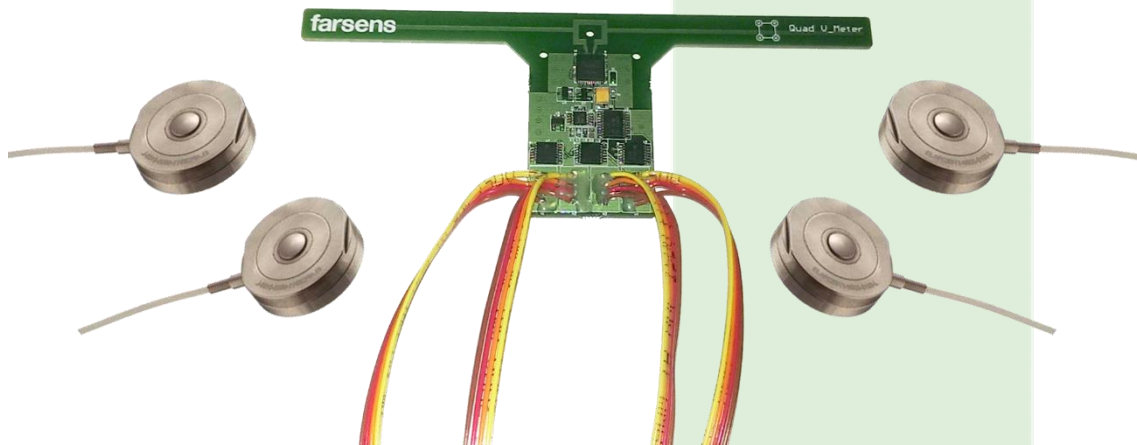Now granulates, fluids and bulks can be included in inventories with RFID.

A handheld RFID reader will automatically read the unique identification number of the tag associated to the pallet. At the same time, the weight of the goods on top of the pallet will be transmitted to the handheld and linked to that unique ID.

All this data will be transmitted to the company's databases and processed for accurate inventory of goods automatically.

Seamless integration with existing RFID infrastructure

Start using battery-free weight monitoring sensors without expensive integration projects.

Your existing readers will communicate with weight monitoring tags. No need to have separate systems or custom software and hardware. Start using RFID sensor tags right away.

Atlas-Q2000L
Battery-free weight monitoring tag