



# Intelligent Sensors for the Food and Beverage Industry



**We partner with our  
customers to construct the  
smart city.**



**Food & Beverage Processing & Waste Water Treatment**

**Quantity, Flow, and Quality**

**Quantity, Flow, and Quality**



# Multinational Organization



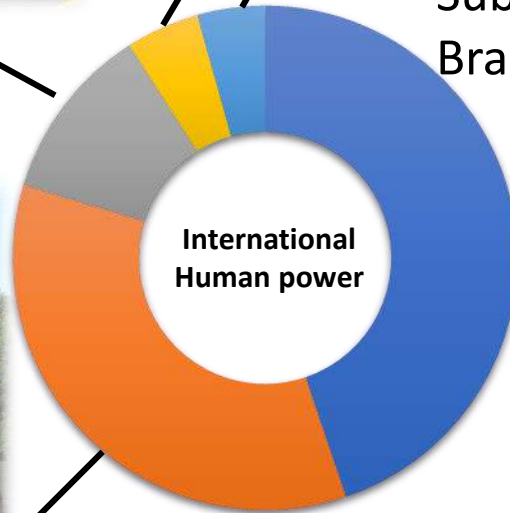
Yi-Lan Factory



Mütec  
Germany



Subsidiary: Germany/ USA / Singapore  
Branch offices: Malaysia & Indonesia



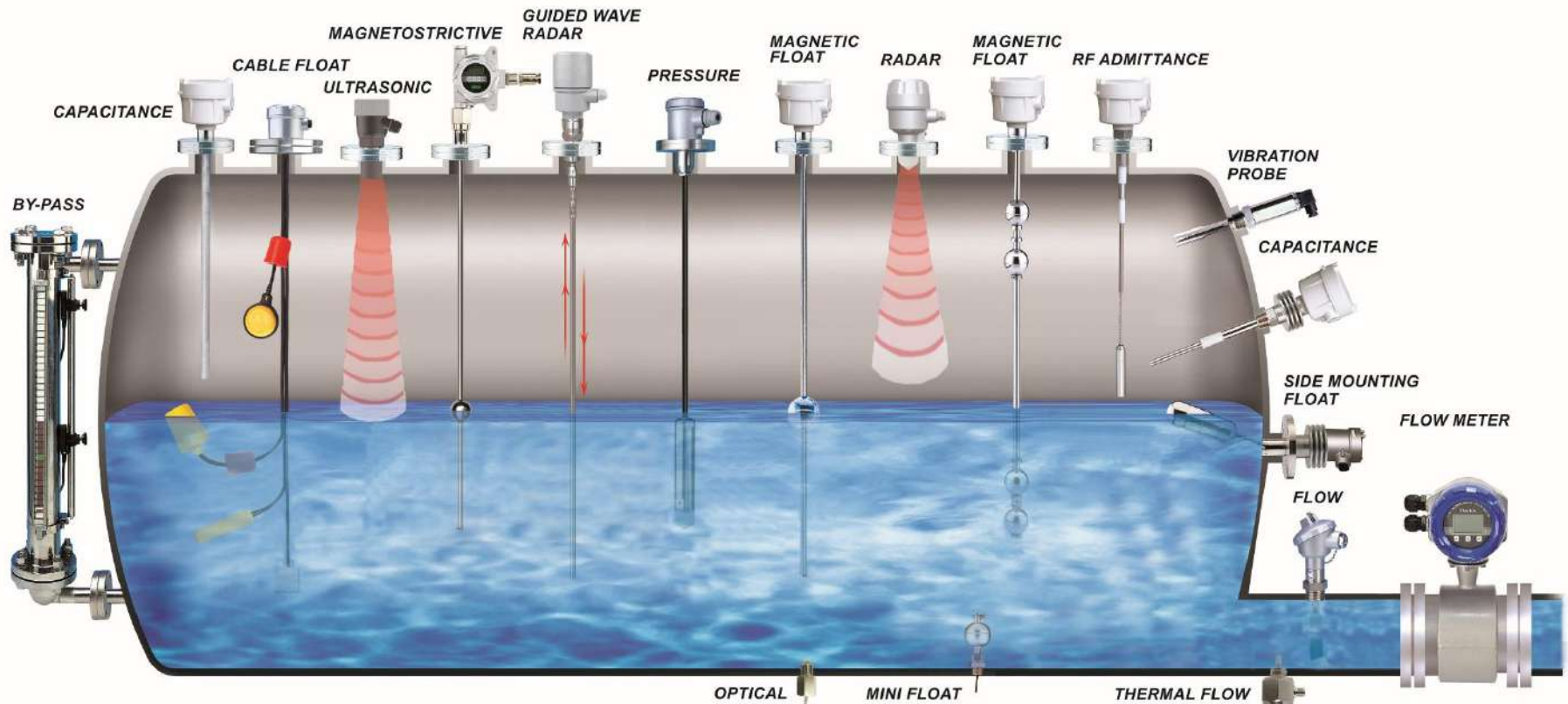
Shanghai Factory & Sales offices



Taiwan HQ New Taipei City



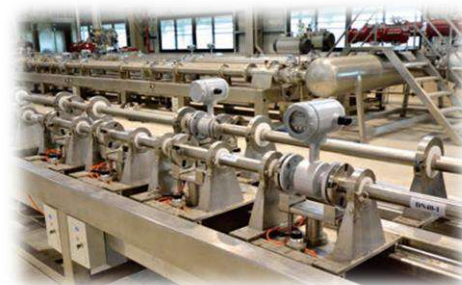
# Product Lines: Liquid Processing



# Product Lines: Flow Processing



**DN40~DN300**



**Your Best  
Water Treatment  
Solution**

**Coriolis Flow Meter  
(Sanitary Grade)**



**Paddle Wheel Type  
Stainless/ Plastic**



**Magnet type  
(Remote Display)**



**Magnet type  
(Sanitary Grade)**

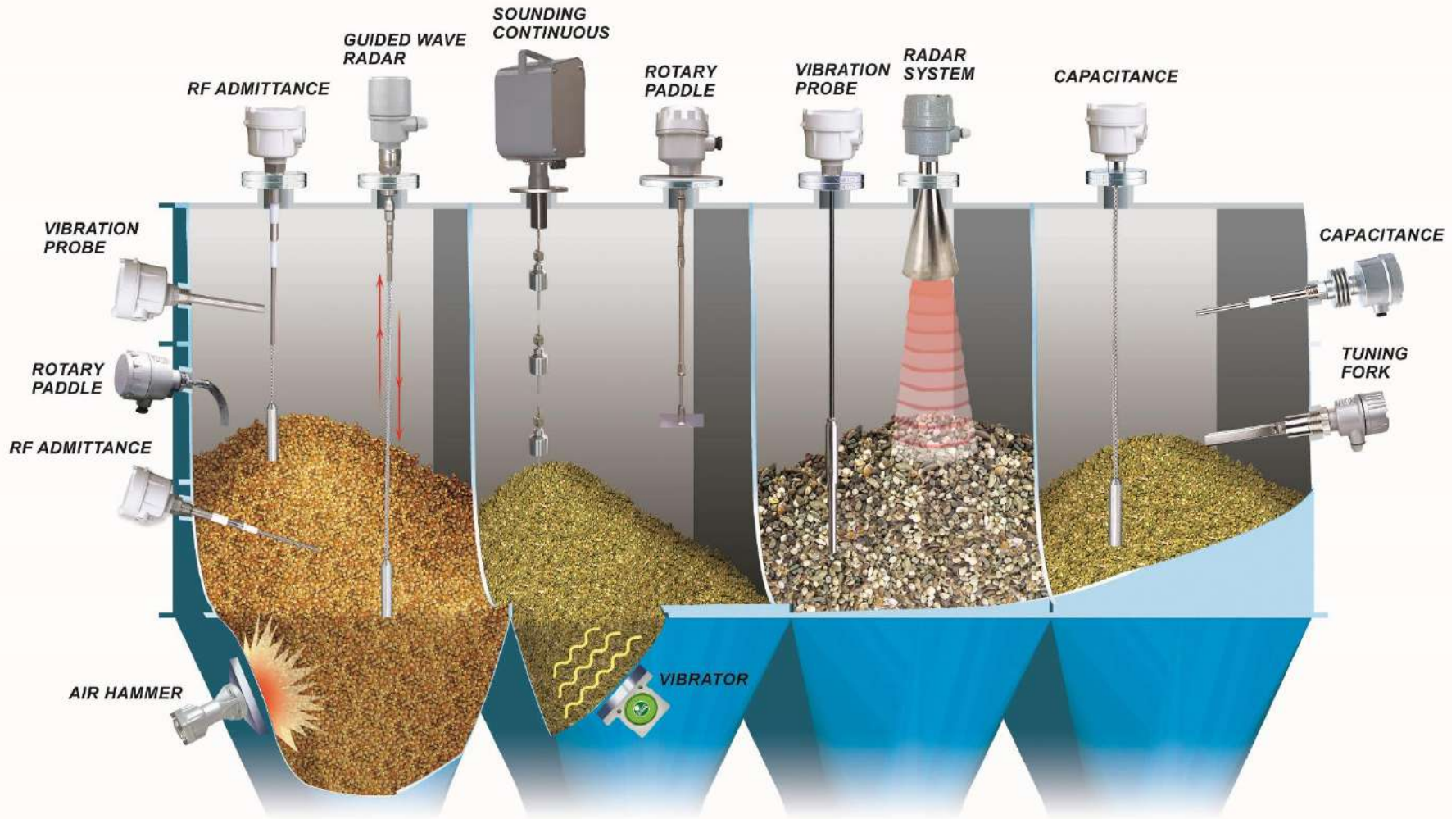


**Magnet type  
(Local Display)**



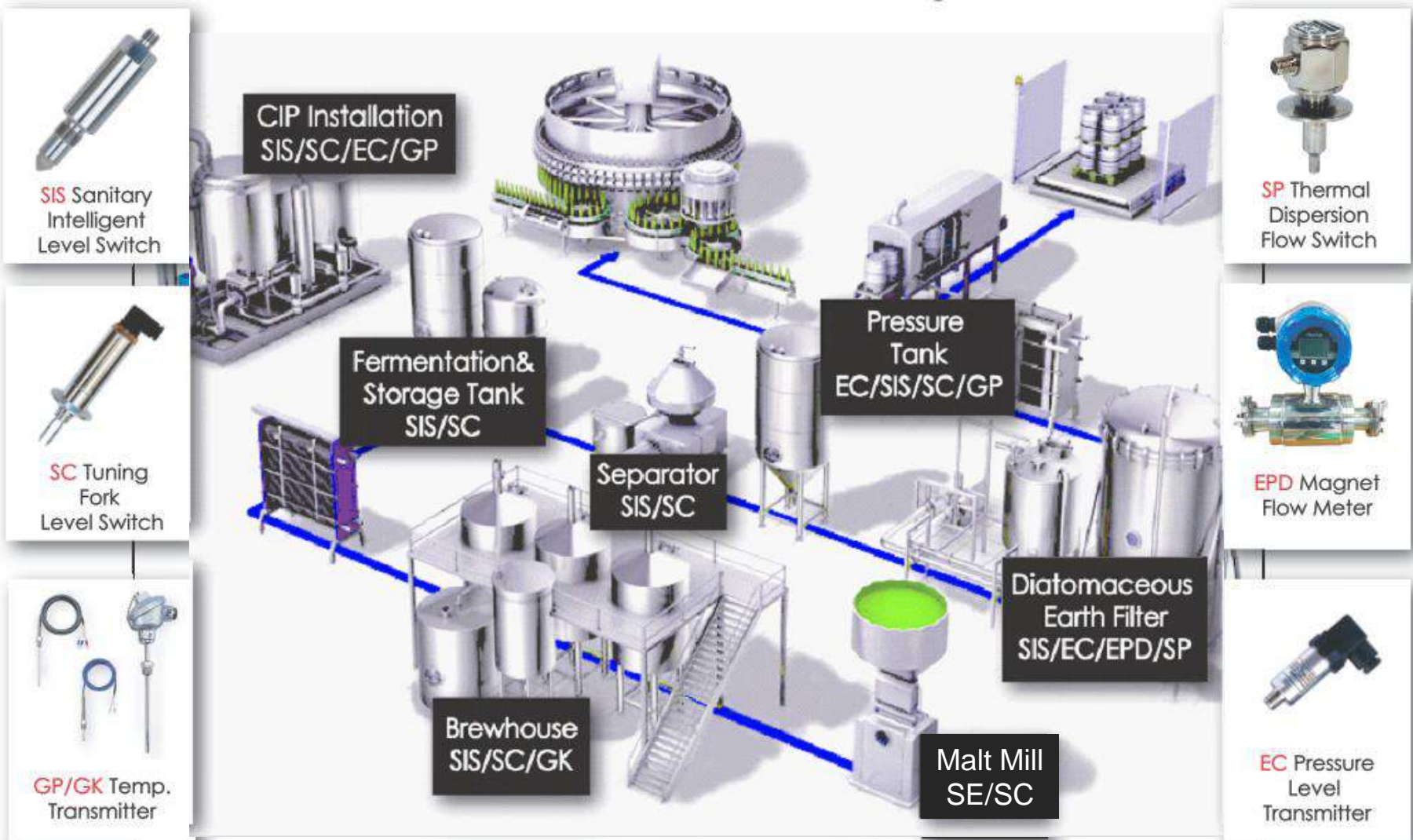


# Product Lines: Powders & Bulk Solids Processing



# Intelligent Sensors Applied in Beverage Industry

## Brewery Process



# Intelligent Case Study

## Very Viscous Food Flow

- Sanitary Point Level Switch  
IP67/IP68/IP69K
- Sanitary PEEK food-grade sensing tip
- Ideal for sensing viscous or sticky and adhesive media (Liquids, pastes and solids)
- Detection of foam and different layers of liquids





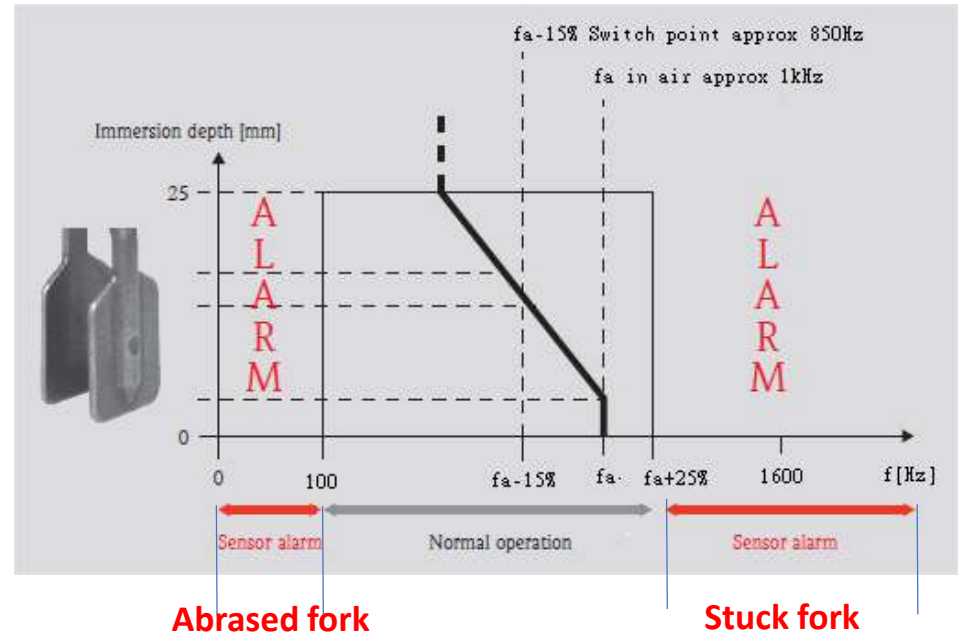
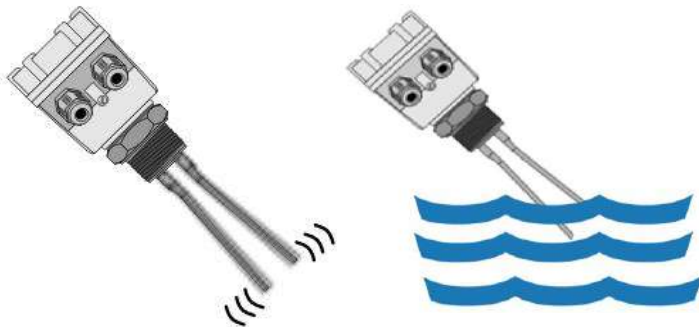
# Intelligent Case Study

## Self Diagnostic Level Switch



**SC38**  
Intelligent  
tuning fork

**SCS16**  
Compact type



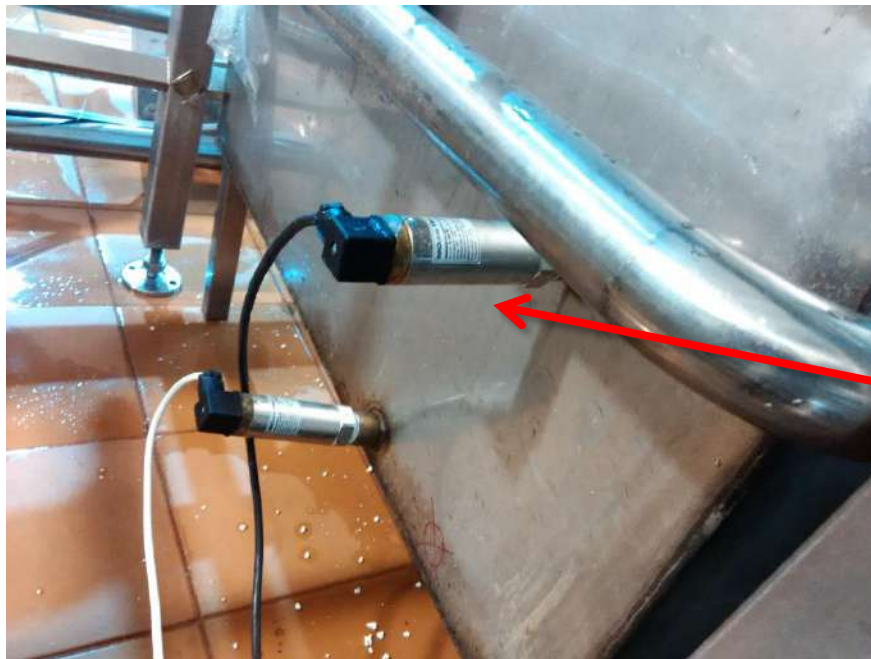
Resonance frequency of tuning fork decreasing while sensor are submerging into liquid  
Self diagnostic alarm is activated at outranged resonance frequency due to abraded or stuck fork

# Intelligent Case Study

## Tuning Fork Level Switch



- SC28 compact tuning fork level switch
- Clean-in-place (CIP) system for milk process
- High temperature corrosive clean solutions



# Intelligent Case Study

## Liquid Egg Process

- Liquid Egg Process Line in Taiwan
- Sticky and foamy product
- High temperature corrosive clean solutions while Clean-in-place (CIP ) in operation
- SCS163-00-DAF -Tuning fork level switch
- EGS152-AF2010-010+TA –Magnetostrictive level transmitter
- EC1506FS-X3S+TA –pressure level transmitter
- GPEAS6- Thermocouple sensor





# Intelligent Case Study

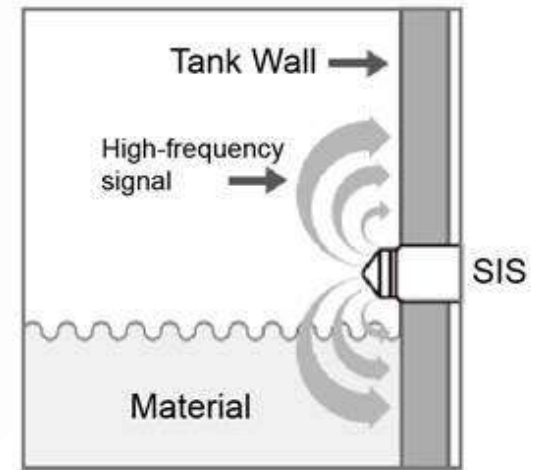
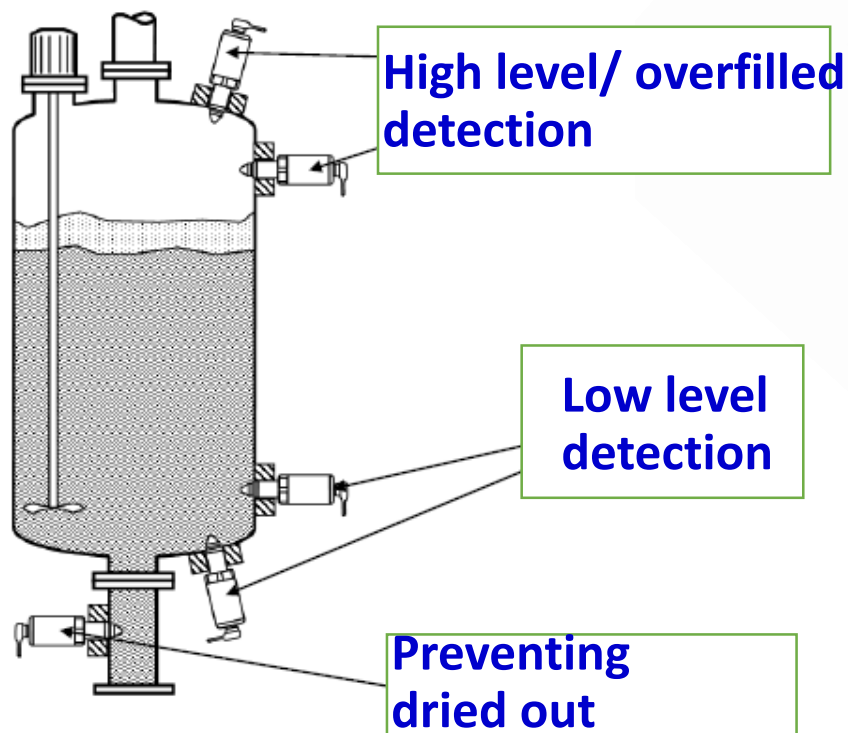
## Cereal Beverages Process

- Standard Food in Taiwan
- a QUAKER licensed plant
- High viscosity, sticky, starchy beverages
- High temperature corrosive clean solutions while CIP in operation
- **EPD34** remote type flow meter for CIP lines



# Intelligent Case Study

## Very Viscous Food Flow



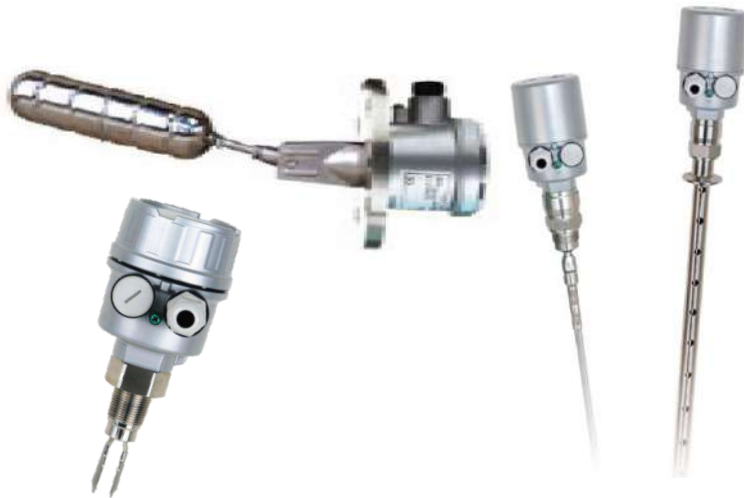
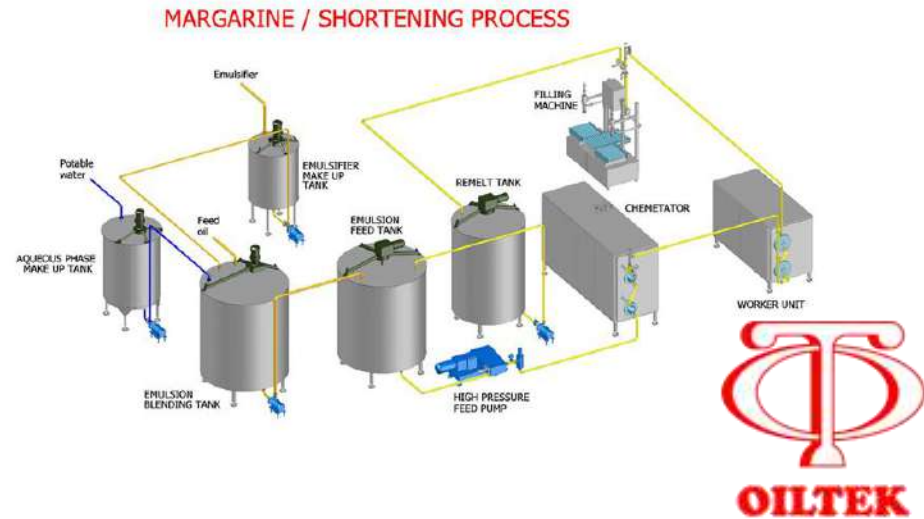
IP67/IP68/IP69K are radio frequency dielectric sensing level switches activated by dielectric changes  
a coordinated sensor to PC



# Intelligent Case Study

## Margarine Process Plant

- OILTEK SDN BHD, Malaysia
- a Leading vegetable oil process engineering company
- Margarine/ Shorting Process Line
- JTR305 guided wave radar
- FF side mount float level switch
- SC38 tuning fork level switch

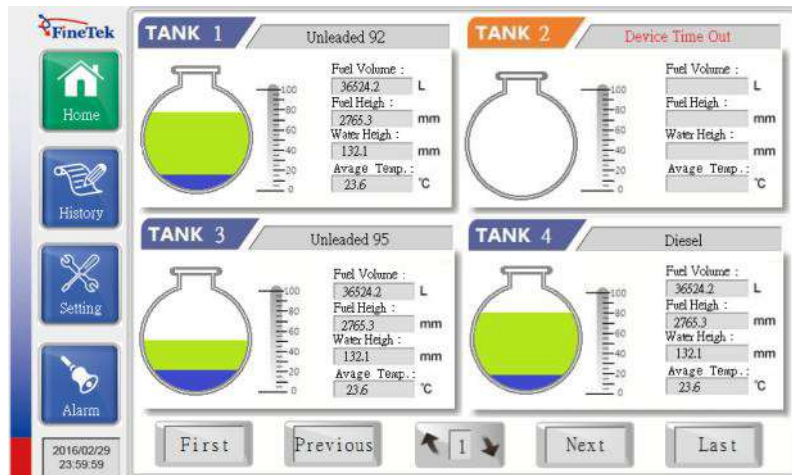




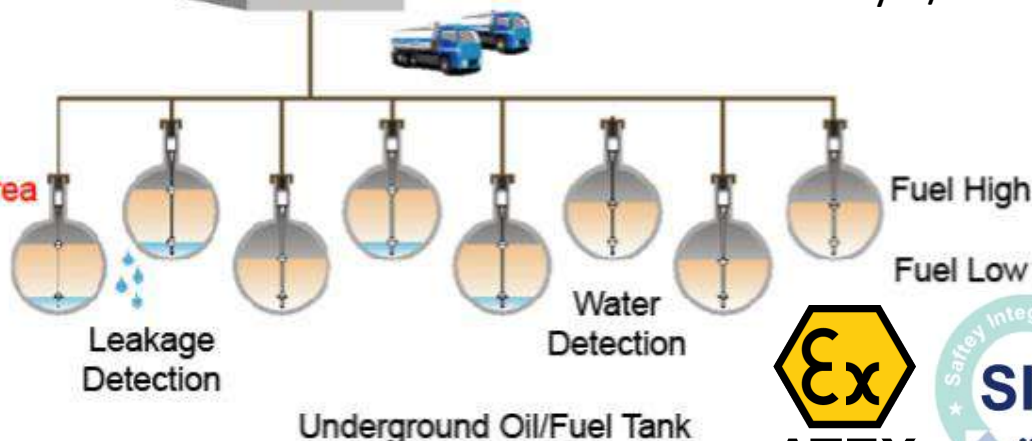
# Integrated System Automatic Tank Gage System



with Magnetostrictive Level Transmitter



RS-485



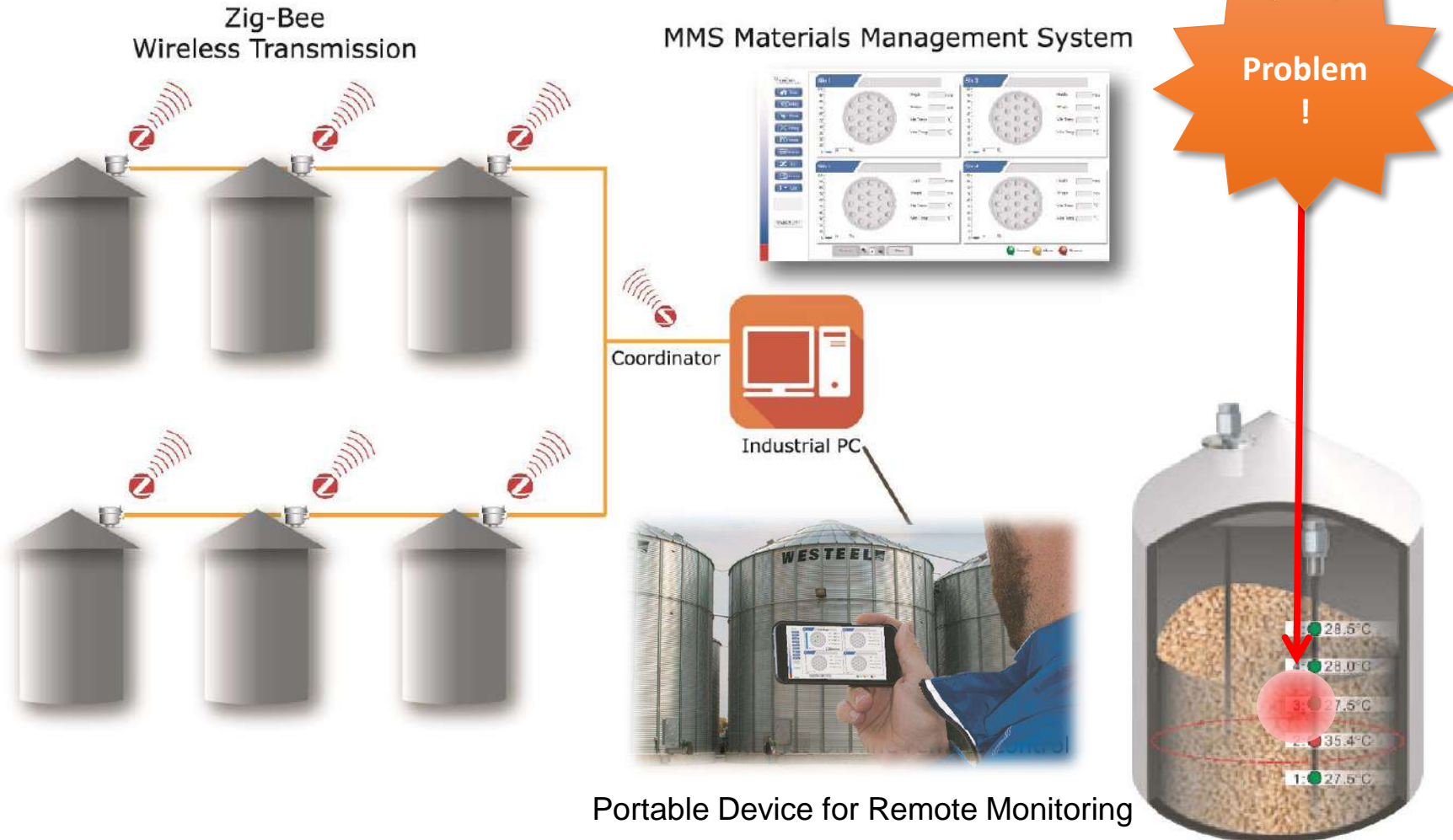
Magnetostrictive  
Level Transmitter

- Level detection for two phase liquid
- 4-digit temperature display
- Linking Alarm
- Shift record
- Volume / Height conversion
- Ex-proof enclosure certificate
- Accuracy +/- 0.1mm



# Integrated System ZIG-BEE Grain Quantity and Quality Monitoring

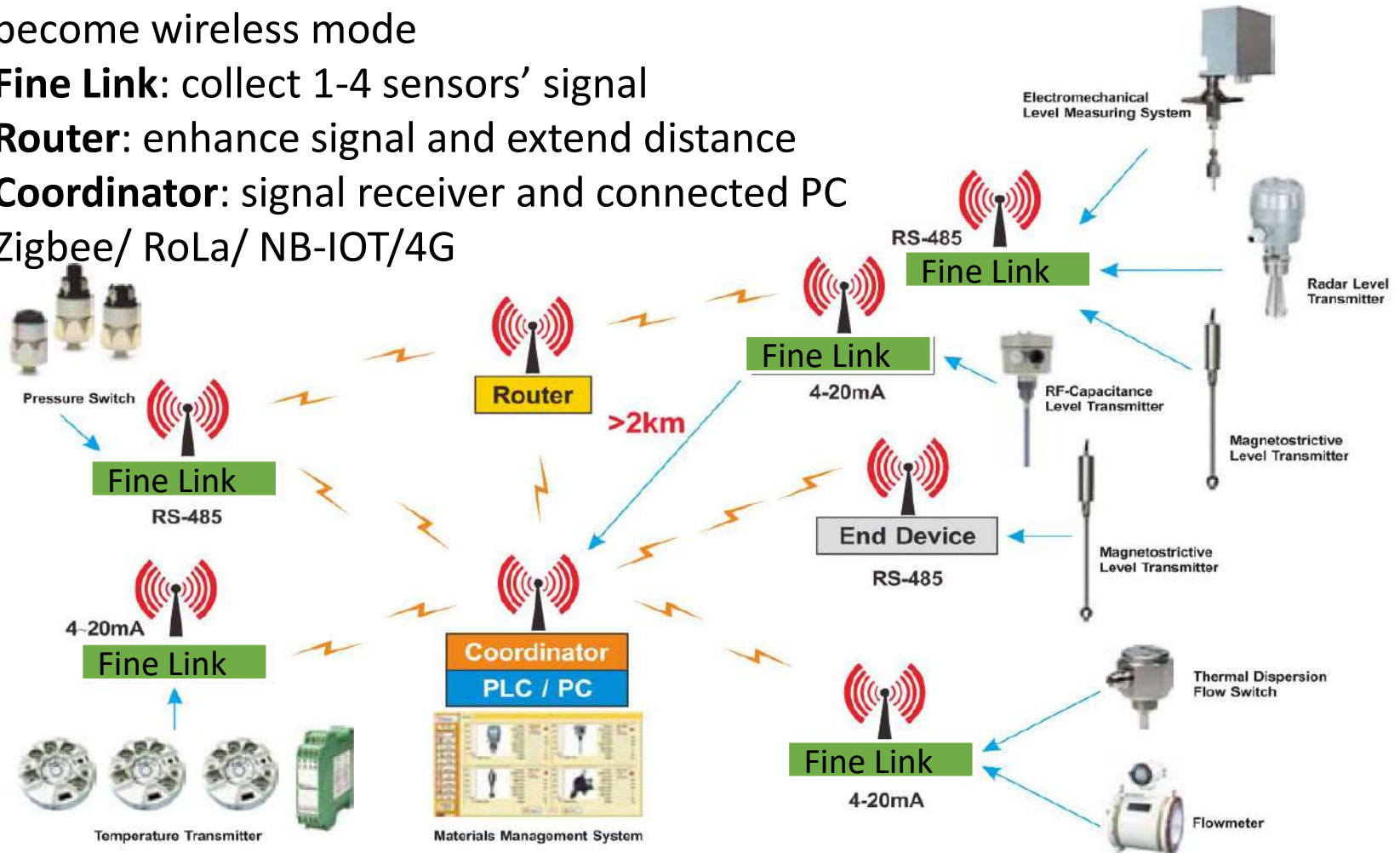
with EST120 2 in 1 grain temperature & level monitoring transmitter



# Integrated System

## Wireless System Networking all of Our Products

- **End device:** connected with individual sensor – become wireless mode
- **Fine Link:** collect 1-4 sensors' signal
- **Router:** enhance signal and extend distance
- **Coordinator:** signal receiver and connected PC
- Zigbee/ RoLa/ NB-IOT/4G

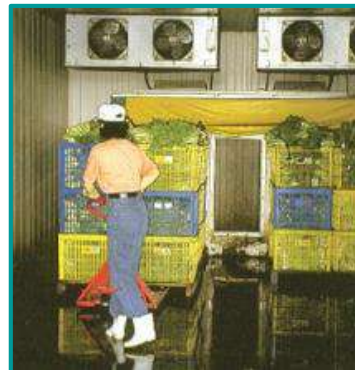




# Integrated Sensing and Control System for Food Safety

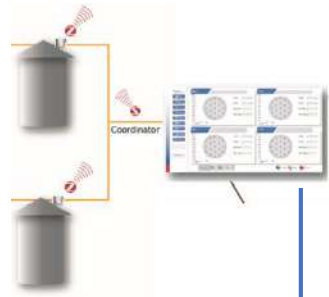
## Farm-to-Table Food Safety

Assuring the safety at each stage of the food chain, from the producer to the consumer, food safety is monitored and control.

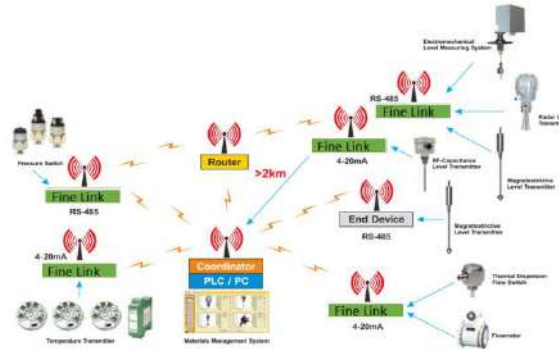


# Integrated Sensor and Control System for Food Safety

Zig-Bee System for Storage



Wireless System for Processing



HSUPA WCDMA

LORA Transmission in Field Production



Remote Video Monitoring



Digital Multifunctional controller



OPC Modus



Cloud Data Center



Digital Prevention (SMS, Email)



Portable Monitoring (Smart phone, PDA)



Monitoring Center (Computer)



# Our Reference-Indonesia





# Our Reference-global

