

Solutions for Food & Beverage Industries

Monitoring instrumentation for

- Breweries
- Soft Drink Production
- Dairy
- Coffee and Tea
- Sugar
- Wine
- Distillation
- Starch



Categories of ECM for Food & Beverage Industries

- Composition of liquids
- Membrane filters
- Fermentation and crystallization
- Foam height
- Composition of powders
- Moisture / Humidity
- Filtration system
- Flow / Pressure / Level
- Industrial gas purity
- Package gases
- Spray drying process
- Cleaning processes
- Clean rooms
- Bacteriological activity
- Sludge drying
- Waste water treatment
- Inerting of storage, transport and centrifuge systems



Liquid content monitoring

- Breweries
- Dairies
- Soft drinks
- Wine



Pressure / Level Monitors

Pressure and Level transmitters



“Intelligent” Pressure and Level transmitters



High-end Levelswitches,
Based on vibration



Low cost Levelswitch,
based on vibration



Gas analyzers

- **Package gases**
Monitoring of O₂, CO₂, N₂ content of package gases
- **CO₂ purity**
Content of sulphur, hydrocarbons, NH₃ and other pollutants
- **Area monitoring**
Portable and stationary analytic equipment

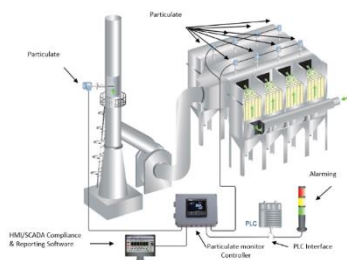


Filters

- Only Self Checking 2-Wire Loop Powered Device
- Also Universal Line Power and Modbus
- Bluetooth Connectivity
- Performance and Design to ASTM D7392, EN 15859
- Wide Ambient Temp Range (-40 °C to 70 °C)
- Easy In/Easy Out Electronics Module
- Single Piece or 2-Piece (i.e. Remote Electronics)
- Heavy Duty Construction
- High Performance yet Simple to Use



Absolute Output
No Confusing Adjustments or Calibrations



**Multi-Channel Particulate Monitor
(Multiple Filters / Chambers)**

Spray dryers

Challenges

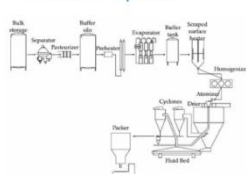
- Sticky particulates
- Higher moisture

Filtration

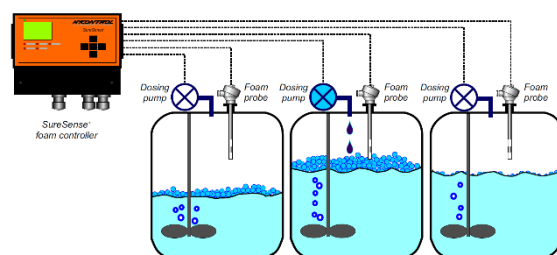
- Spray driers
- Cyclones
- Bag filters
- Can be no filters

Solutions

- Insulated sensors
- Leakage (blockage) monitoring
- Bag filter management
Dust Tools predict



Foam monitoring



Water quality instrumentation

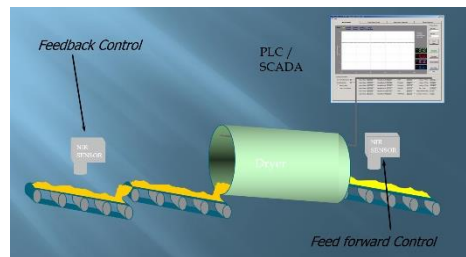
Sensor probes to monitor composition of the intake water and of the effluent. Effluent monitoring indicates accidental escape of product into the waste water

Compact analytic systems to monitor TOC, COD, BOD, NH₄, pH, ORP, DO, Phenols, BTX hydrocarbons, turbidity and other



Moisture

Typical Installation:



Oven / Dryer / Fryer Control

Bacteriologic pollution monitoring for mineral water and soft drink bottling with rapid response within 15 minutes

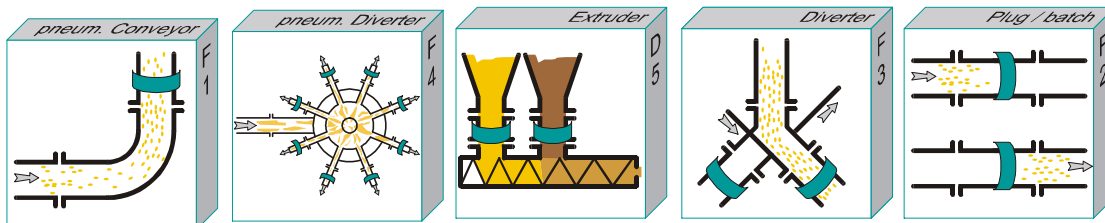


Flow of Powders and Granulates

On-line Mass Flow Rate Measurement



Conveying / Distribution Applications



For detailed information on solutions of your interest we are gladly available:

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