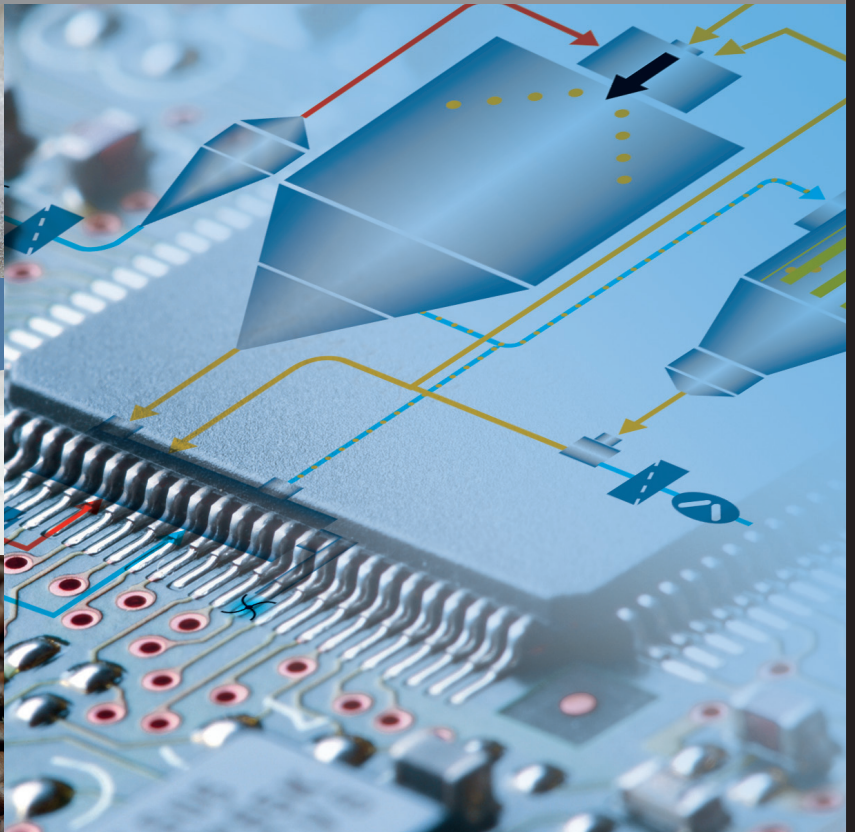


LET'S PLAY IT SAFE

EARLY SMOULDERING FIRE DETECTION CO MONITORING CONTROL SYSTEM

MONITOR
CONTROL
PROTECT



robecco dryer protection

robecco **RDP**

robecco dust control

robecco **RDC**



Scan QR-Code
to learn more

RISK



DUST EXPLOSION HAZARDS

exist in

- Mills
- Spray Dryers
- Dryers
- Filters – Dust Collectors
- Silos
- Conveyors
- Separators
- Dedusting Screens
- Mixers

IGNITION SOURCES

are

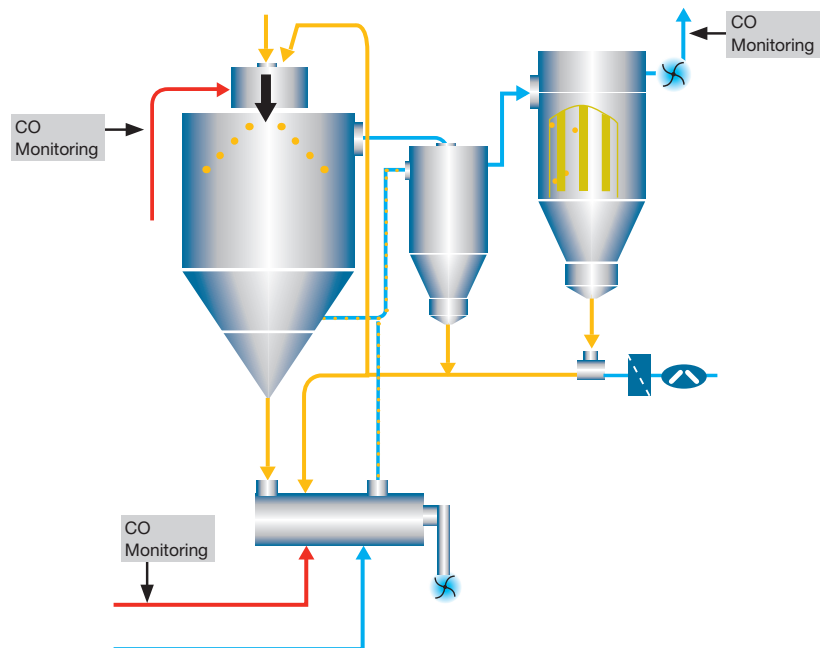
- Smouldering Nests
- Hot Surfaces
- Mechanically-Induced Sparks
- Sparking Electrical Equipment
- Flames
- Electrostatic Discharges

PRODUCTS

are

- combustible dust in powder-air mixtures

EARLY SMOULDERING FIRE DETECTION CO MONITORING CONTROL SYSTEM



Fire and Explosion Risks:

- Fires and Explosions generate high risks for people, the environment and production installations. The consequences are significant developments of heat and pressure.
- The fire and explosion safety of an installation is determined by risk factors of the process and products.
- High drying temperatures and material product characteristics can develop dangerous smouldering fires in the production process.
- Use of Carbon Monoxide (CO) Analysis for early fire detection is recommended according to VDI guideline 2263 part 7 and 7.1 is a proven technology.
- Early detection of smouldering fires allows the operators to mitigate fire propagation with help of technical measures. Continuous Carbon Monoxide (CO) monitoring is essential to ensure prevention against fires and explosions.

robecco dryer protection avoids production stops and ensures productivity.

Technical Characteristics:

- Continuous IR Differential CO Measurement **NEW**
- ATEX Conformity
- Heated Sample Probes
- Heated Sample Lines
- Compact Construction
- User-Friendly-Operation
 - Visualisation of Measurements
 - Simple Cost Effective Maintenance
 - Minimal Spare Parts
 - Data Memory
 - Failure Indication
 - Redundant CPU System on demand
 - Drift Compensation Scheduling
 - Automatic Maintenance Monitoring
 - Flexible User Administration
 - Reliable Performance & Low Operational Costs

Applications (examples):

Early fire detection in drying processes of

- | | |
|---------------------|----------|
| • Milk | • Coffee |
| • Cocoa | • Sugar |
| • Malt | • Tea |
| • Fruit Concentrate | • Blood |



robecco dust control determines in an effective way damage in filter separators. Optimisation of emission and filter monitoring guarantees high productivity.

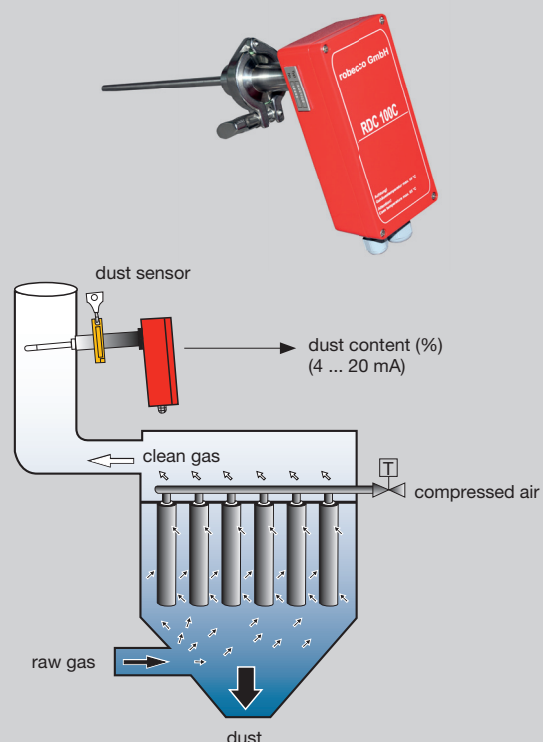
Technical Characteristics:

- Emission and filter monitoring with one device
- Avoidance of visible exhaust gas plumes
- Avoidance of product losses
- Simple erection and installation
- Simple maintenance of filter installations because of:
 - Early detection of ongoing bag filter damage
 - Location of damaged filter elements
 - Opportunity for specific maintenance

Applications (examples):

Emission and filter monitoring in

- Process Filter
- Silo roof filter
- Dedusting systems



ROBECCO GENERATES

QUALITY · SAFETY · PRODUCTIVITY



Engineering &
Industrial
Instrumentation

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