CONTINUOUS LEVEL MEASUREMENT

Reliable Continuous Level Measurement. Even in the Toughest Process Conditions.

THE MEASUREMENT SOLUTION

Ronan's non-contact radiometric measurement systems provide reliable, continuous level readings of liquids and bulk solids—even when extreme temperatures, pressure, corrosion, abrasion, foam or internal obstructions make conventional measurement difficult.

HOW IT WORKS

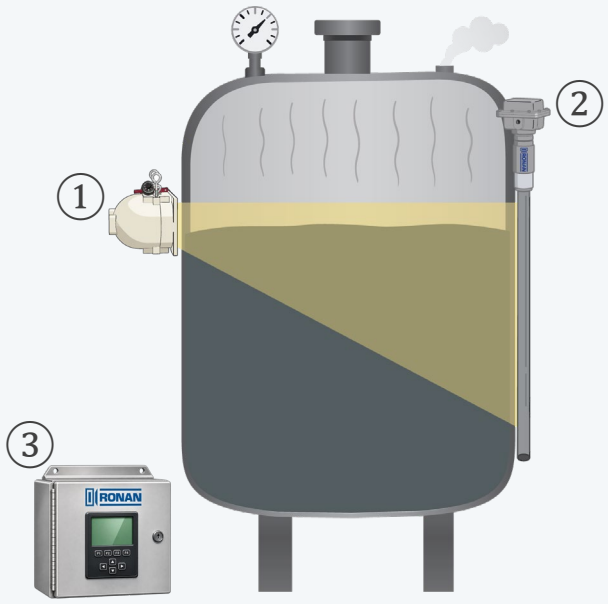
Ronan's continuous level measurement system uses three coordinated components to measure changing material levels without direct process contact.

1. Source Holder
Directs a controlled beam of gamma energy through the vessel across the required measurement range.

2. Detector
Measures changes in radiation intensity as the level of liquid or bulk solids rises or falls.

3. Microprocessor / Transmitter
Processes and compensates for changes in the detector signal, converting them into a continuous level reading for process monitoring and control.

Continuous Level Measurement



KEY BENEFITS

Not Affected by Extreme Conditions
Components are external, without exposure to extreme process conditions.

Installed, maintained while the process is running
Doesn't require downtime, vessel modifications or the need for specialty construction materials.

Easily Upgrade Existing Systems
System is backward-compatible to enable an upgrade to newer transmitter technology.

Stable, Repeatable Readings
Advanced signal processing compensates for challenging conditions.

CONTINUOUS LEVEL MEASUREMENT

BUILT AROUND YOUR PROCESS

Configured around vessel geometry, material characteristics, operating conditions and required measurement range.

ELECTRONICS FEATURES & CAPABILITIES

- Stable, repeatable readings with advanced signal filtering and dynamic tracking
- Consistent performance over time with automatic source-decay compensation
- Improved measurement stability through compensation for changing process conditions
- Flexible installation with integral or remote transmitter mounting
- Easy system integration with process-control outputs and diagnostics

INDUSTRIES & APPLICATIONS

INDUSTRIES

- Chemical Processing
- Refining, Oil and Gas
- Pulp and Paper
- Cement
- Mining and Aggregates

APPLICATIONS

- Tanks, reactors and pressure vessels
- Process columns and separators
- Coke drums, digesters and blow tanks
- Silos, storage bins and hoppers
- High-temperature processing vessels
- Challenging liquid and bulk-solids applications

ENGINEERED FOR YOUR PROCESS

No two applications are identical. Ronan engineers evaluate vessel dimensions, wall thickness, internal obstructions, material properties and operating conditions to configure a measurement system for your specific needs.

From initial application review through commissioning, startup and ongoing support, Ronan works with your team to deliver a dependable measurement solution.

EXPLORE THE COMPLETE SOLUTION

◄ Scan for applications, technical resources and to contact a Ronan engineer.

ronan.com/measurement-systems/measurement-systems-continuous-level/