INTERFACE LEVEL MEASUREMENT

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

THE MEASUREMENT SOLUTION

Ronan's non-contact radiometric systems continuously measure the boundary between liquids or process materials of different densities—even when high temperatures, pressure, corrosion, emulsions or buildup make conventional interface measurement difficult.

HOW IT WORKS

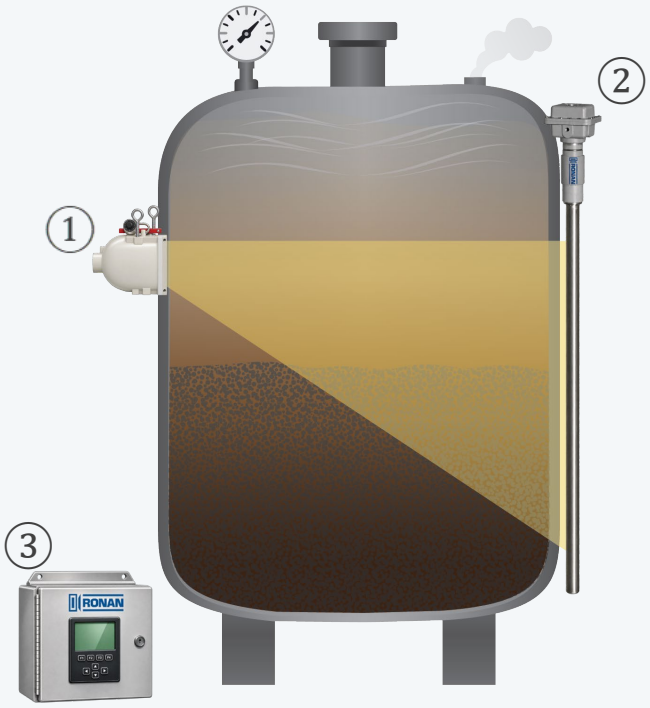
Ronan's interface-level system uses three coordinated components to track the boundary between process materials of different densities without direct process contact.

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

2. Detector
Measures changes in radiation intensity as the boundary between materials moves through the measurement path.

3. Microprocessor / Transmitter
Converts the detector signal into a continuous interface-level reading for process monitoring and control.

Interface Level Measurement



KEY BENEFITS

Reliable in Extreme Conditions
External measurement components avoid direct exposure to corrosive materials, extreme temperatures and pressure.

Reduced Maintenance
No intrusive probes or components exposed to process materials, coating or buildup.

Consistent Interface Tracking
Measures changing material boundaries to support reliable separation process control.

Adaptable to Complex Processes
Configured for varying densities, emulsion layers and challenging vessel conditions.

INTERFACE LEVEL MEASUREMENT

BUILT AROUND YOUR PROCESS

Configured around vessel geometry, material densities, expected interface range, emulsion characteristics and operating conditions.

ELECTRONICS FEATURES & CAPABILITIES

- Dependable interface readings through X96 microprocessor signal processing
- Application flexibility with configurable measurement ranges and outputs
- Improved process visibility with interface-tracking and density-profile options
- Easier control-system integration with display, alarm and logging capabilities

INDUSTRIES & APPLICATIONS

INDUSTRIES

- Refining, Oil and Gas
- Chemical Processing
- Petrochemical Processing
- Pulp and Paper

APPLICATIONS

- Oil-water separators
- Desalters and treaters
- Three-phase production separators
- Emulsion-separation vessels
- Settling tanks and decanters
- Liquid-liquid separation processes

ENGINEERED FOR YOUR PROCESS

Reliable interface measurement depends on understanding the materials being separated. Ronan engineers evaluate density differences, vessel geometry, emulsion layers and operating conditions to configure a system for your specific application.

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

EXPLORE THE COMPLETE SOLUTION

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

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