

SOLIDS MANAGEMENT 2022+



soliDetect 1.0

Sand Management Solutions

by Award-Winning Finnish Innovator Rocsole





FOUR AREAS MOST OPERATION MANAGERS ARE CONCERNED ABOUT:

Sand accumulation in processes can cause...



Reduced Throughput

Undetected solid buildup in pipelines and process vessels reduces the operating capacity.



Reduced Production Performance

Solids movement can cause damage to infrastructure such as pipeline, pumps, valves, etc.; increase the potentials for corrosion.



Expensive Downtimes

Blockages inside pipelines and process vessels may lead to expensive unplanned shutdowns.



Unnecessary Safety Risks

Corrosion & erosion of pipelines may lead to leakage of process fluids.

Unplanned shutdowns and maintenance can be made a distant memory.

The current solutions lack reliable insights and data; this prevents the operators from relying on the information and thus taking timely actions.

Operation teams need relevant data to improve performance and take corrective measures.

You deserve a better tool that keeps you well-informed 24/7.

Remove your processing uncertainty.

Shape the future of your operation with a reliable and robust patented award-winning solution.



SoliDetect 1.0

Get your processing to the next level with SeeBeyond

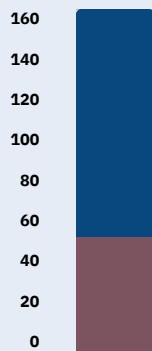
Our electrical tomography-based SeeBeyond technology provides a real-time permittivity /conductivity profile, generating an overall picture of what is happening inside for typically data starved operating environments.

The interpretation is based on actual real-time data. Now you can SeeBeyond the walls of vessels or pipelines and identify when changes happen.

Our Electrical Tomography technology is robust and reliable as it can operate despite contamination (fouling). The technology enables the measurements of interface levels for solids buildup and liquids - 24/7 updated for your information and monitoring.

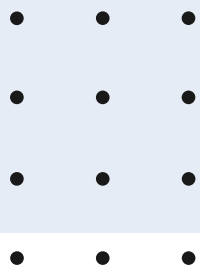


SEE HOW IT WORKS: <https://rocsole.co/sdworks>



Liquids

Solids



Your Operational Success Unleashed

**Do not accept sand
contamination in your
operations any longer.**

**Our clients' feedback (and even more:
their results) shows repeatedly:**

**Existing customers say
Rocsole SoliDetect 1.0 is
enabling a reliable solids
monitoring system for
improved process control.**



Informed Decisions through Data Integration

Our data intelligence software is designed to integrate with your systems. Rocsole SoliDetect 1.0 collects "real-time" process data and is available in multiple formats upon request using our interactive reporting software.



Effectively Avoid Unnecessary Risks and Cost

Real-time data of solids buildup from within the process vessels prevents unexpected shutdowns or asset deterioration. Relevant data improves overall performance, increases throughput and reduces cost. No more environmental hazards, and it helps you reduce carbon emissions.



Use Reliable Insights for Improved Efficiency

The Rocsole SolidDetect 1.0 provides rapid and reliable data, allowing you to understand and manage solids buildup within your process. Allow you to be proactive rather than reactive.



Maximize Production & Revenues

The detailed, real-time information provided will not only help you with avoiding unnecessary damage but also can help you optimise production. Where this approach has been implemented, our clients were able to make changes to individual wells, increasing oil production and identifying those areas where sand production is not an issue.

Tech Specs



Typical Delivery

DELIVERY Incoterms 2020, EXW Kuopio



User Interface

SOFTWARE Rocsole Webroc 1.0

Performance

TECHNOLOGY	Electrical Tomography	MINIMUM NOZZLE SIZE	60 mm (2.3")
TYPICAL MEASUREMENT RANGE	360-1440 mm (14-56.7")	DESIGN PRESSURE RANGE	Up to 170 bar (2465 PSI)
TYPICAL TOTAL LENGTH	400-5000 mm (16-200")	DESIGN TEMPERATURE RANGE	-40 to +120 °C (-40 to 248 °F)
TYPICAL ACCURACY (ACHIEVED)	22 mm		

Electrical Characteristics

SUPPLY VOLTAGE	24Vdc	OUTPUT	<ul style="list-style-type: none">• Modbus/TCP
ELECTRONICS	24Vdc @ 3A		<ul style="list-style-type: none">• Modbus/RTU
COMPUTER	24Vdc @ 3A		<ul style="list-style-type: none">• Analog 4-20mA• OPC UA

Mechanical Characteristics

	WEIGHT	MATERIAL	ZONE
PROBE	Varies	Varies	Zone 0
ELECTRONICS CABINET	40 - 100 kg	Varies	Zone 1
COMPUTING UNIT	Varies	Varies	Safe Zone / Zone 2

Environmental

APPROVALS	ATEX, IECEx, CSA	OPERATING TEMPERATURE SENSOR	-40 .. +120 °C
INSTALLATION	With online factory support	OPERATING TEMPERATURE ELECTRONICS	-40 .. +50 °C (Al Enclosure)
COMPLIANCE	EN	OPERATING TEMPERATURE COMPUTING UNIT	-40 .. +50 °C

Additional Information

SPARES Part of Subscription agreement

PRODUCT CODE PROB-SA-16 .. 64

Also available:

In most cases, first-time implementors prefer to start with our standard package, which includes equipment supply, installation/ commissioning and data reporting/interpretation. We are well aware that each operation is different, so please know you can always add:

Tailored Packages & Support

- 1.** Custom consulting and implementation assistance
- 2.** Tailored Rocsole SolidDetect 1.0 elements to fit the specs of your operation
- 3.** Training, support and maintenance in the operation of the Rocsole SolidDetect 1.0

SeeBeyond



DON'T LET THE VESSEL WALLS
RESTRICT YOUR PERFORMANCE.



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Brought to you by Rocsole, your partner for
next-level operational excellence in the Oil & Gas industry.

Our trusted investors
supporting our technology:



Check out our patents here:



Proudly acknowledged by:



We are happy to help configure the solution
setup that is perfect for your operation.

Let's talk:



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SEE BEYOND.

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