

No room for compromise.

Particularly small,
exceptionally powerful:
The Compact Line.





At a glance: Compact Line

No room for compromise.

The Compact Line consists of three products with three different measuring technologies – for continuous level, point level and pressure applications. It delivers high performance and scalability, starting from small storage and process vessels with tight space conditions up to large tanks and silos. The Compact Line is specially designed for hygienic applications in the Food & Beverage and Life Sciences industries where compromise is not an option.





Added Values

The Compact Line provides the hygienic industries with high-performance measuring devices for outstanding simplicity, maximum product and process safety as well as increased productivity.

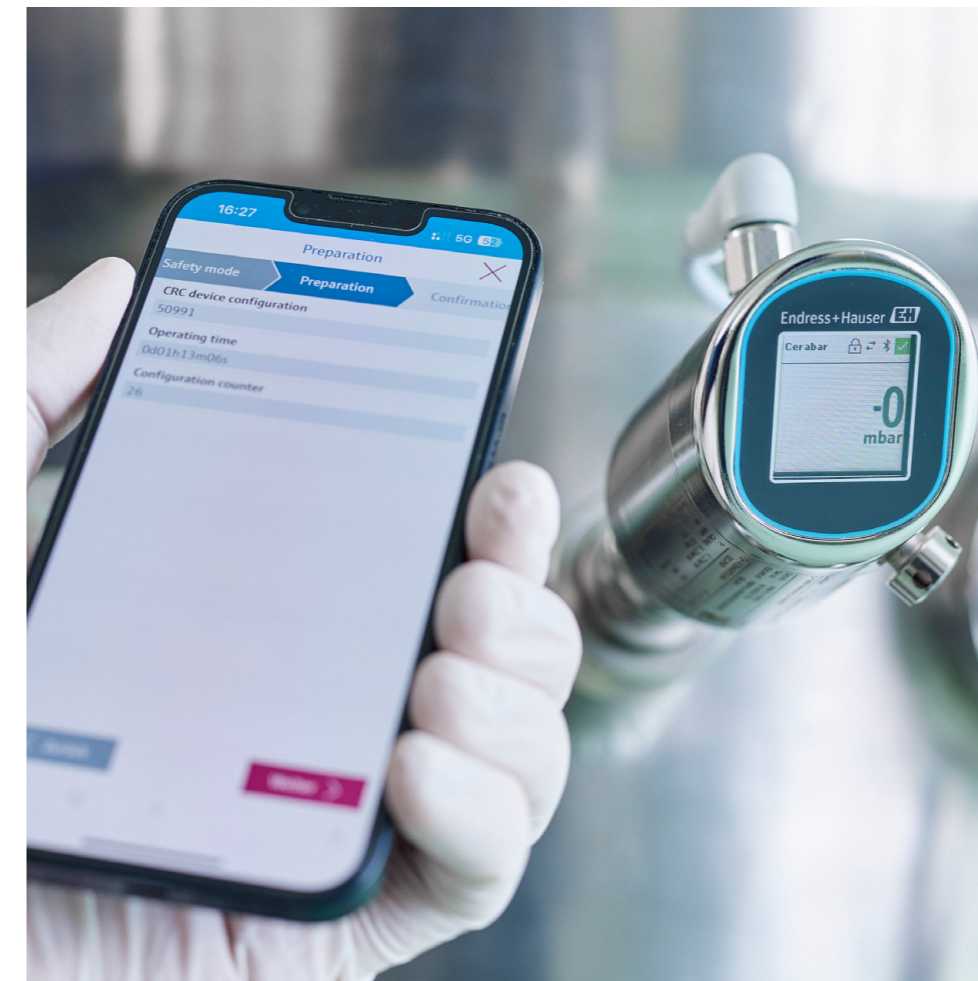




Easy to use

Exceptionally capable,
incredibly simple.

The same, intuitive operability for
commissioning and troubleshooting of
all measuring instruments throughout
processes helps you to reduce training
efforts, operating errors and costs.

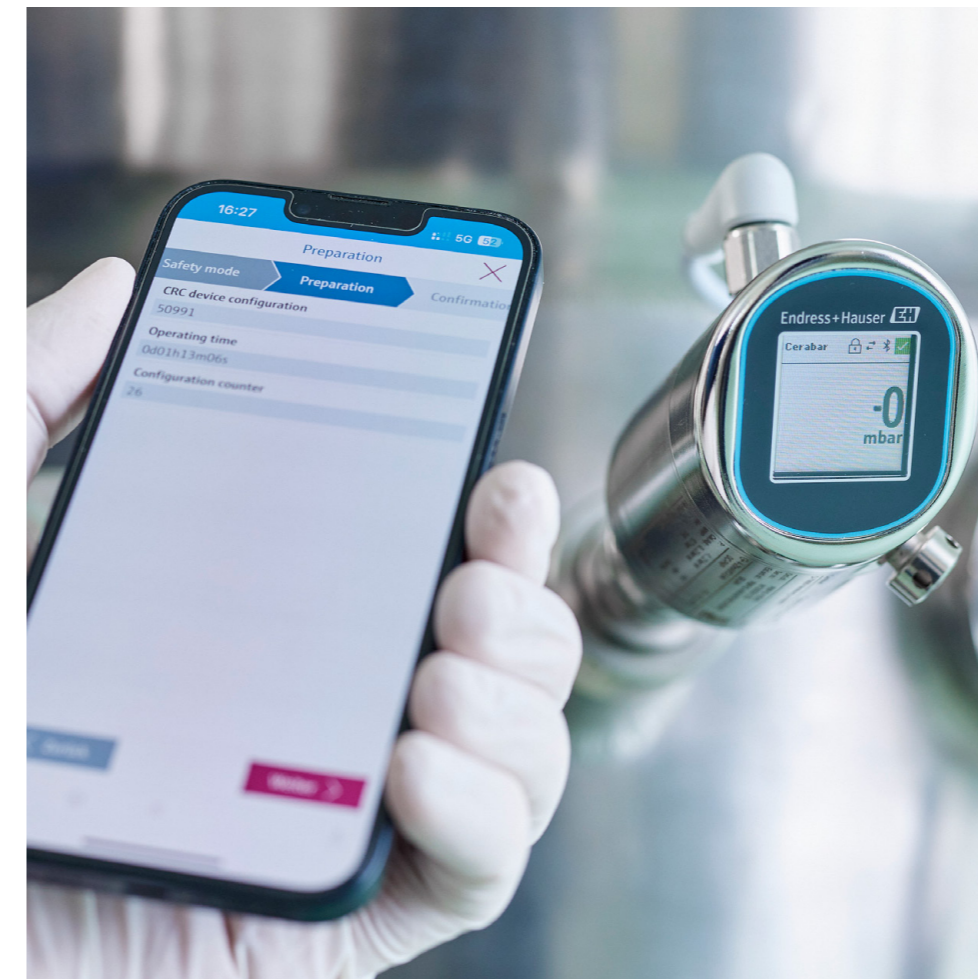




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No matter which individual requirements
your plant needs to meet, the Compact
Line offers a complete portfolio of products
for virtually any application.

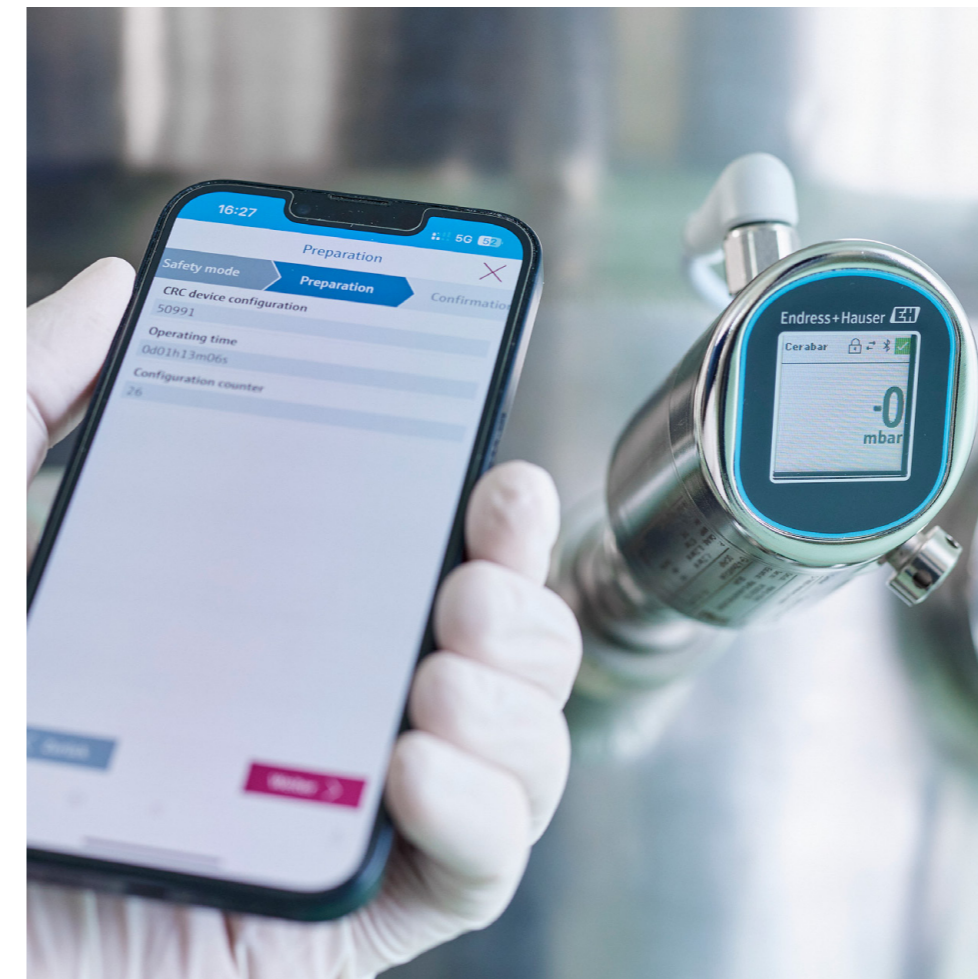
It includes a compact radar for non-contact
level measurements with either 80 GHz or
180 GHz, a proven-in-use point level sensor
and an highly performant and reliable
technology for pressure and hydrostatic
level measurements.



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The Compact Line does not require a specialist to set up and operate the devices. The intuitive display with great visibility and touch operation is easy to use. Guided wizards simplify commissioning and maintenance and thus help you to prevent errors.

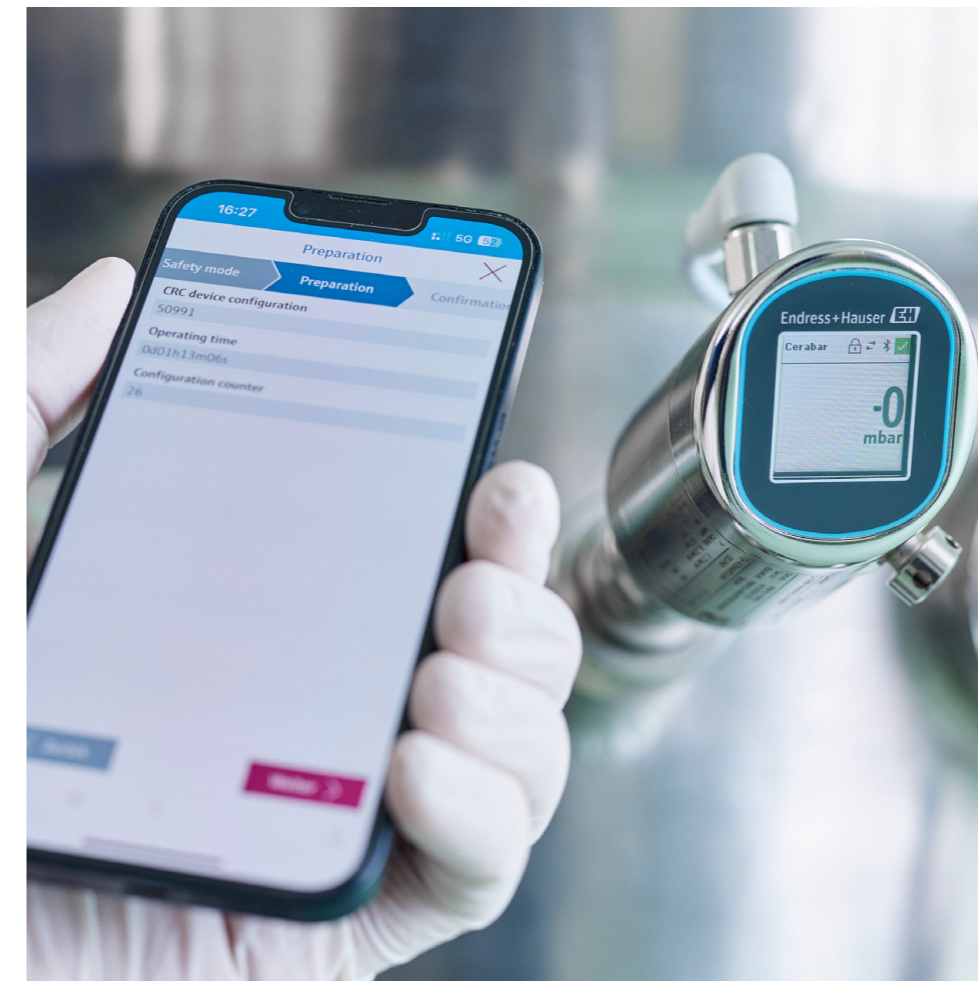
Remote operation is easy via SmartBlue App on a smartphone or tablet using Bluetooth® Technology. A basic LED version complements the offering when a simple indication of the operating status is sufficient.



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Save on costly training: The Compact Line
uses the same user interface across all
measurement technologies. If you can
operate one measuring device, you can
manage them all.

Benefit from lower training efforts and
thus, a reduction in operational costs.



Product and process safety

Distinctively hygienic, incredibly reliable.

How much product and process safety does your process need? The Compact Line offers more than enough!





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In uncompromisingly hygienic applications, safe and easy cleaning is essential for product and process safety, efficiency and costs. The measuring devices are made of stainless steel and can be cleaned from the outside with cleaning agents, and with high pressure cleaners thanks to IP69 protection class, even for the version with display.

To avoid product contamination, the process contact parts are gap-free and fully cladded or welded without additional seals. Therefore, long-lasting Sterilization in Place (SIP) and Cleaning in Place (CIP) can be performed.



Product and process safety

Distinctively hygienic, incredibly reliable.

How much product and process safety does your process need? The Compact Line offers more than enough!



Hygienic applications leave no room for compromise when it comes to compliance. Therefore, all process contact parts meet the requirements of EHEDG, 3-A certifications and ASME BPE.

The traceability of all process contact materials is assured and fully documented and meets the requirements of FDA, EC1935/2004 or cGMP.



Product and process safety

Distinctively hygienic, incredibly reliable.

How much product and process safety does your process need? The Compact Line offers more than enough!



Sensible processes require a high level of safety with concern for configuration management. Smart instrumentation must fulfil strict requirements to avoid unintentional changes of parameters or help to avoid voluntary manipulation.

The Compact Line offers several support options. With a safety mode wizard, critical parameters may be locked. The user role concept allows assigning distinct permissions. Maintain control over who accesses what, enhancing security and accountability.



Increased productivity

Particularly compact, flexibly scalable.

The Compact Line leverages performance on a wide range of hygienic applications, leading to a significant boost in productivity. Heartbeat Technology empowers your decision-making based on deep process insights.





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Thanks to the compact design of the measuring devices, you use a consistent product line from small storage and process vessels, skids and modules up to large tanks and silos. This helps to drive standardization for improving consistency, cost efficiency, ease of maintenance and enhanced scalability.

From first batch to market, products go through various processes, combined with vessels of different sizes and requirements. You save time and money by using the same type of measuring instrument throughout different development phases, from small to large scale.



Increased productivity

Particularly compact, flexibly scalable.

The Compact Line leverages performance on a wide range of hygienic applications, leading to a significant boost in productivity. Heartbeat Technology empowers your decision-making based on deep process insights.



The need to increase efficiency and productivity in industrial processes is growing. With Heartbeat Technology the Compact Line has a powerful technology that helps improve your plant performance while reducing operational costs.

Build-up from sticky media, malfunctions or necessary calibrations lead to costly process interruptions. Heartbeat Technology increases efficiency and simplifies your plant processes by detecting anomalies. With the help of the traceable in situ verification function, calibration intervals can be optimised, and resource consumption like water and energy can be reduced.



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Transform your industrial landscape with smart connectivity. IO-Link or HART communication and Bluetooth® Technology enable an effortless integration for a future-ready, connected production. Getting more data in real-time elevates your efficiency and improves process quality.



Benefits at a glance

The Compact Line helps to simplify your operation, enhance product and process safety and increase productivity by standardizing a compact and high-performance instrumentation offering.

Highly visible LED to indicate operating status from a distance

Fast and simple One-Button-Commissioning

Certified hygienic design and proven material compliance and traceability

Heartbeat Technology

Data integrity through tamper-proof design



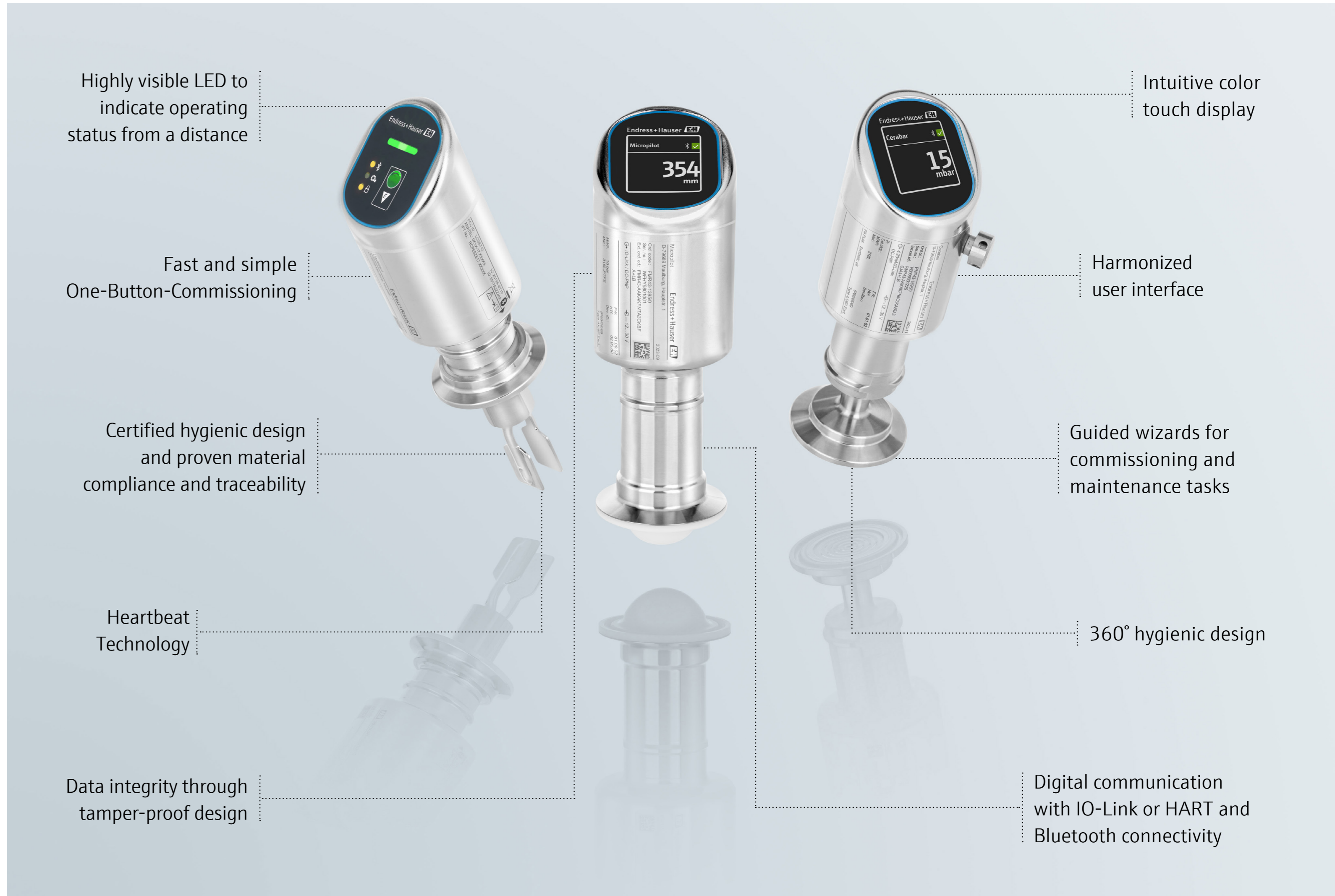
Intuitive color touch display

Harmonized user interface

Guided wizards for commissioning and maintenance tasks

360° hygienic design

Digital communication with IO-Link or HART and Bluetooth connectivity



Industry Focus

Developed specifically for the Food & Beverage and Life Sciences industries, the Compact Line offers measuring devices for virtually all continuous level, point level and pressure applications in one standardized hygienic design. The product line is flexible in scale which means it can be used in small vessels and pipes, as well as in bigger process tanks.





Food & Beverage

Improved quality, reduced operational costs

Reduced operating costs offer a competitive advantage in the production of soft drinks or alcoholic beverages, dairy products, oils or other foods. Food safety cannot be compromised. In addition, cost-effective and reliable production processes are crucial. The Compact Line provides you best-in-class hygienic measuring devices that meet all industry requirements.





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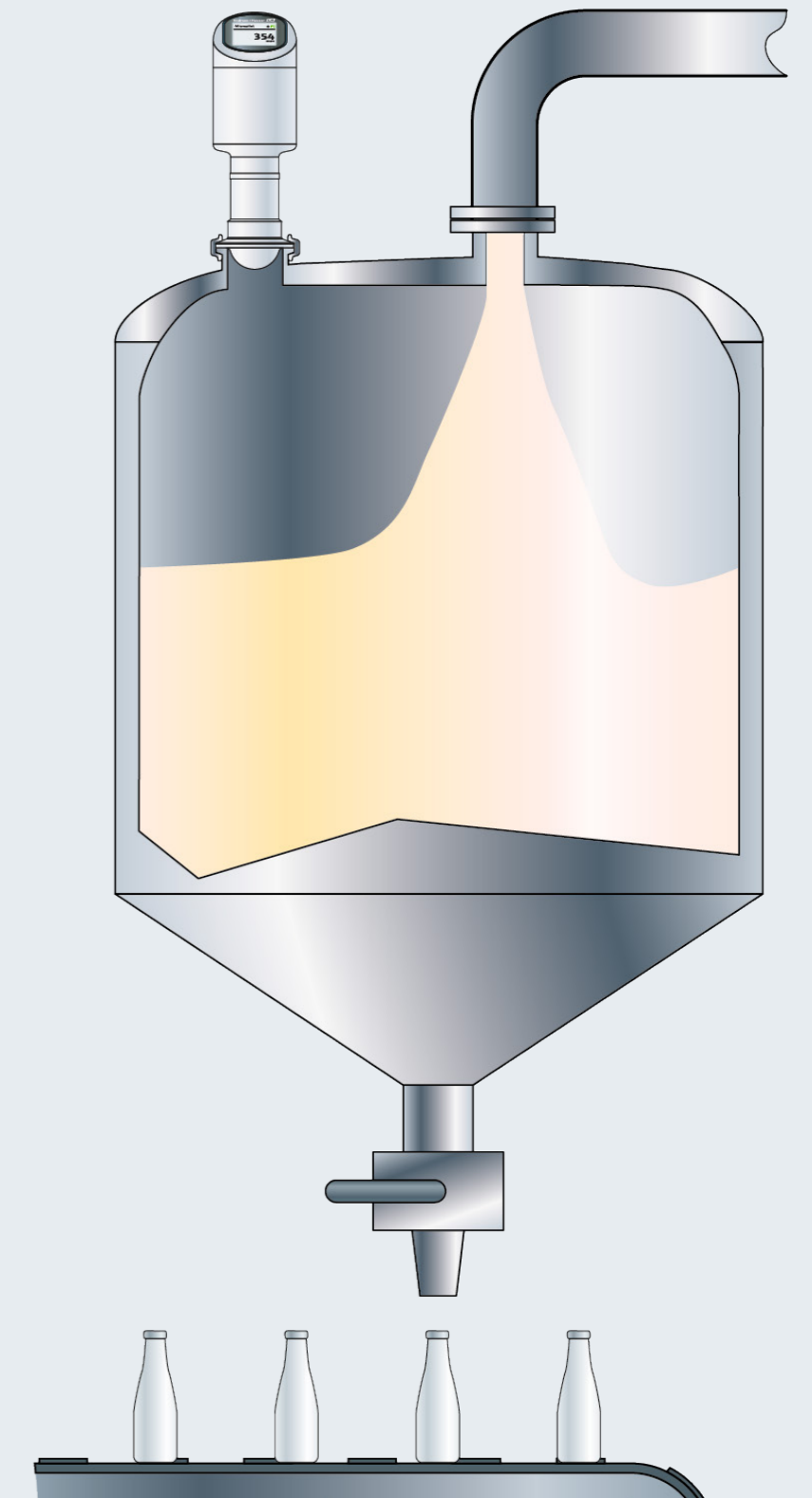
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Your challenges

- Maintain a stable medium level in the filler bowl
- Foam formation
- Changing media properties

Our solution

The Micropilot FMR43 provides a fast and reliable level measurement to control the level in the filler bowl. The non-contact measurement is independent of media properties such as density or conductivity and simplifies cleaning.



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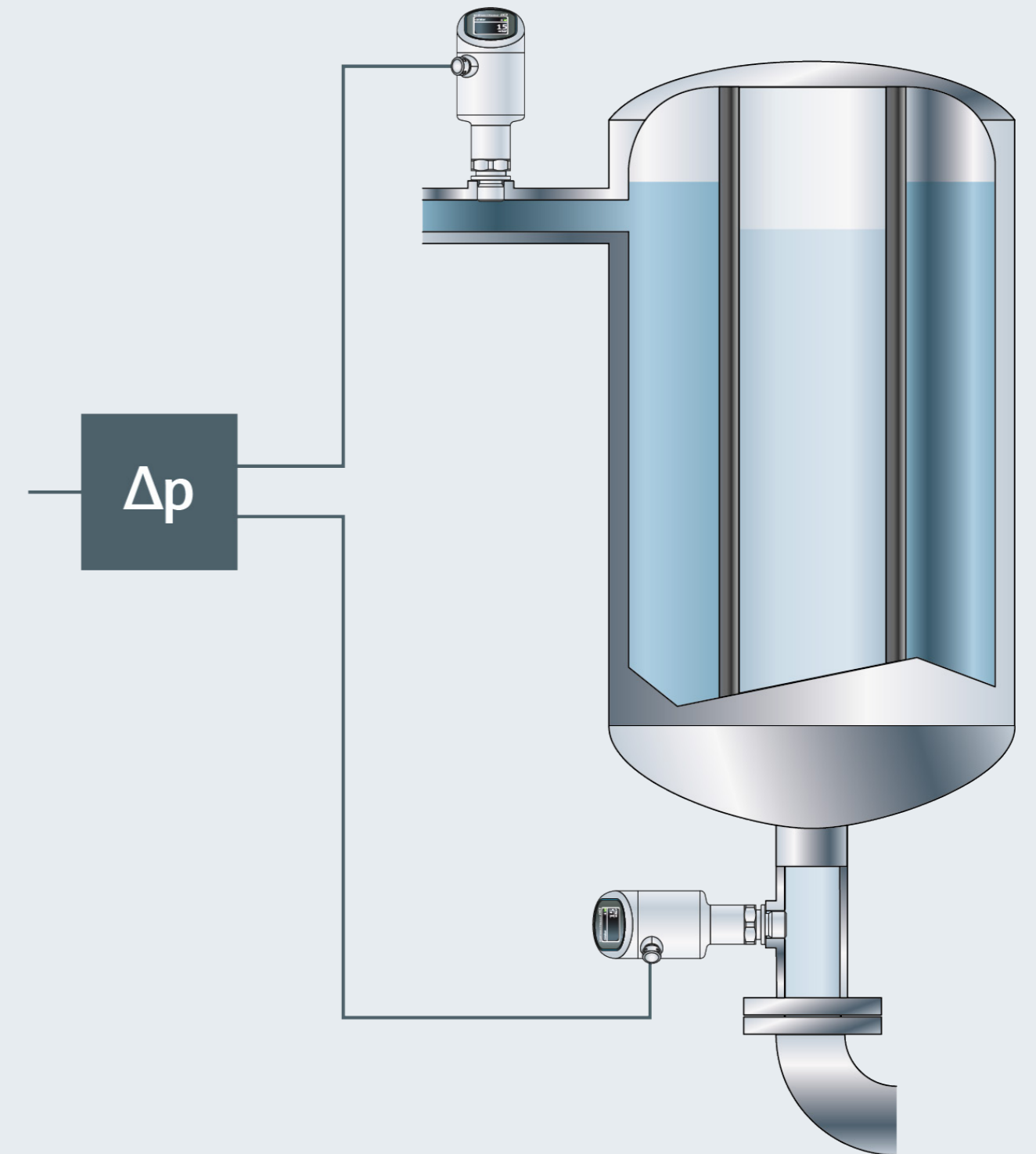
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Your challenges

- Identify blocked filters

Our solution

The Cerabar PMP43 provides a precise pressure measurement. Especially in applications where small pressure differences need to be identified. The high accuracy of the Cerabar PMP43 is essential for an efficient filter monitoring. Thanks to digital communication via IO-Link, the differential pressure can be calculated easily in the control system.





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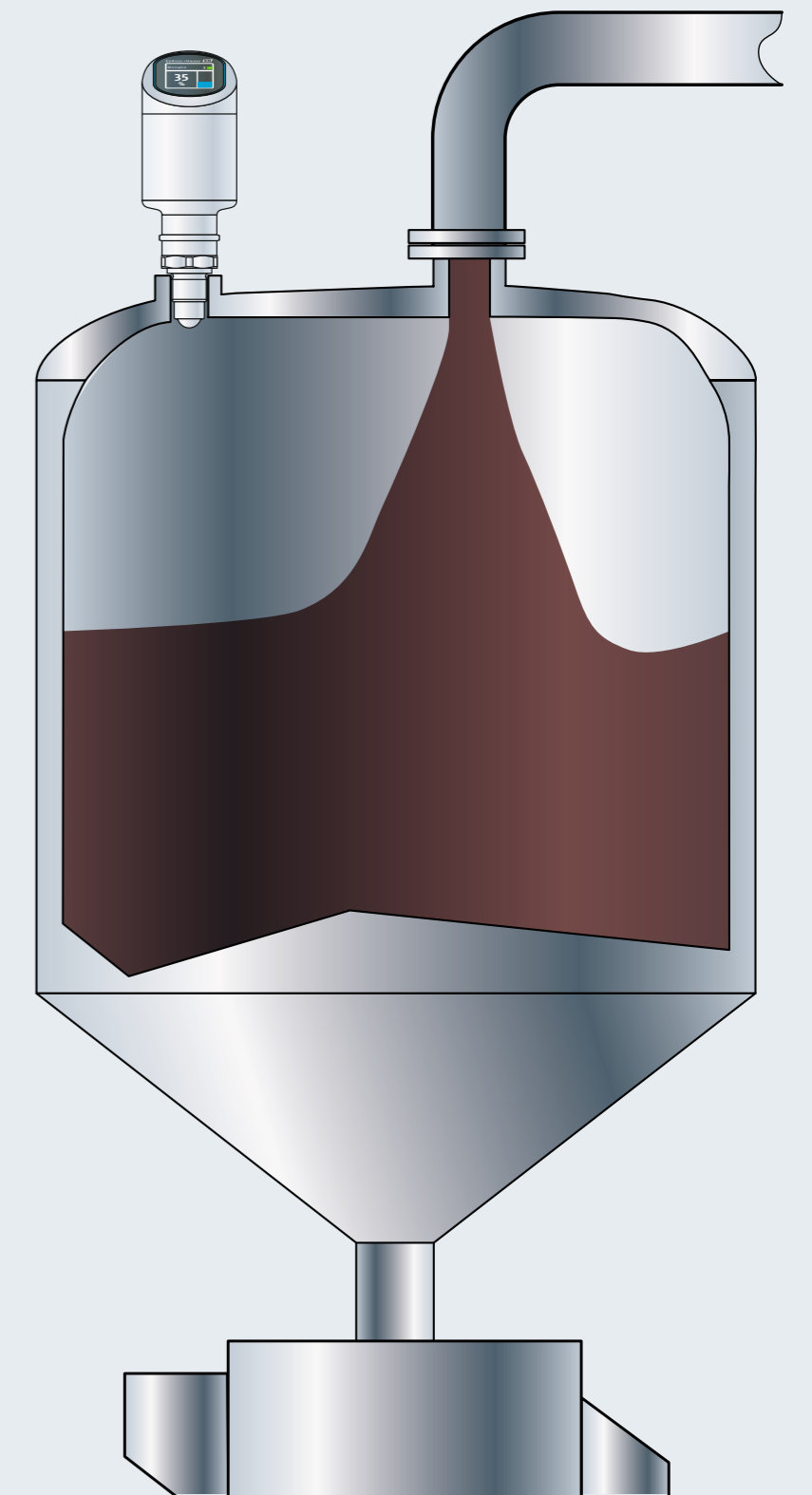
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Your challenges

- Strong vibrations
- Dusty environment

Our solution

The Micropilot FMR43 provides a reliable non-contact level measurement for solids. As the sensor is not in direct contact with the medium, it is not affected by vibrations of the mill. The focused beam angle, dust and obstacles do not influence the measurement.





Food & Beverage

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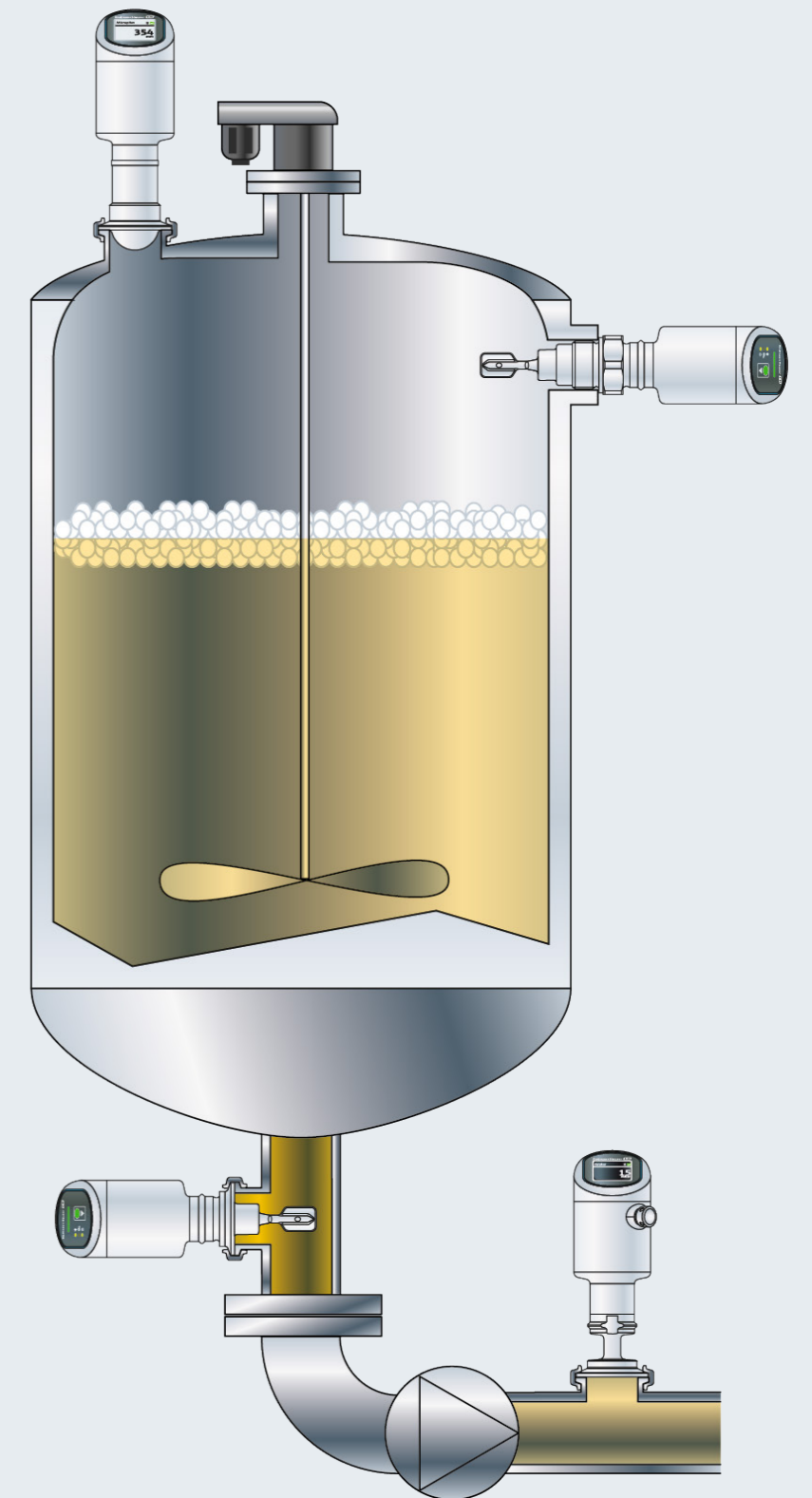
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Your challenges

- Mixing of media with different densities
- Agitations and turbulent surfaces
- Foam formation

Our solution

If media with different densities are mixed, hydrostatic level measurement reaches its limits. The Micropilot FMR43 is the perfect choice in this application as the measurement is independent of the media density. A strong and focused beam angle provides a reliable measurement even in the presence of foam or condensate. The Cerabar PMP43 is used to control the process pressure, while the Liquiphant FTL43 prevents overflow and dry run.





Life Sciences

Full performance,
minimized footprint.

The Compact Line combines precise measurement with a compact design. It can be readily integrated in all process units and skids used for the production and purification of biotherapeutics or other life sciences products. Your processes will operate safely, accurately and in compliance with GMP.





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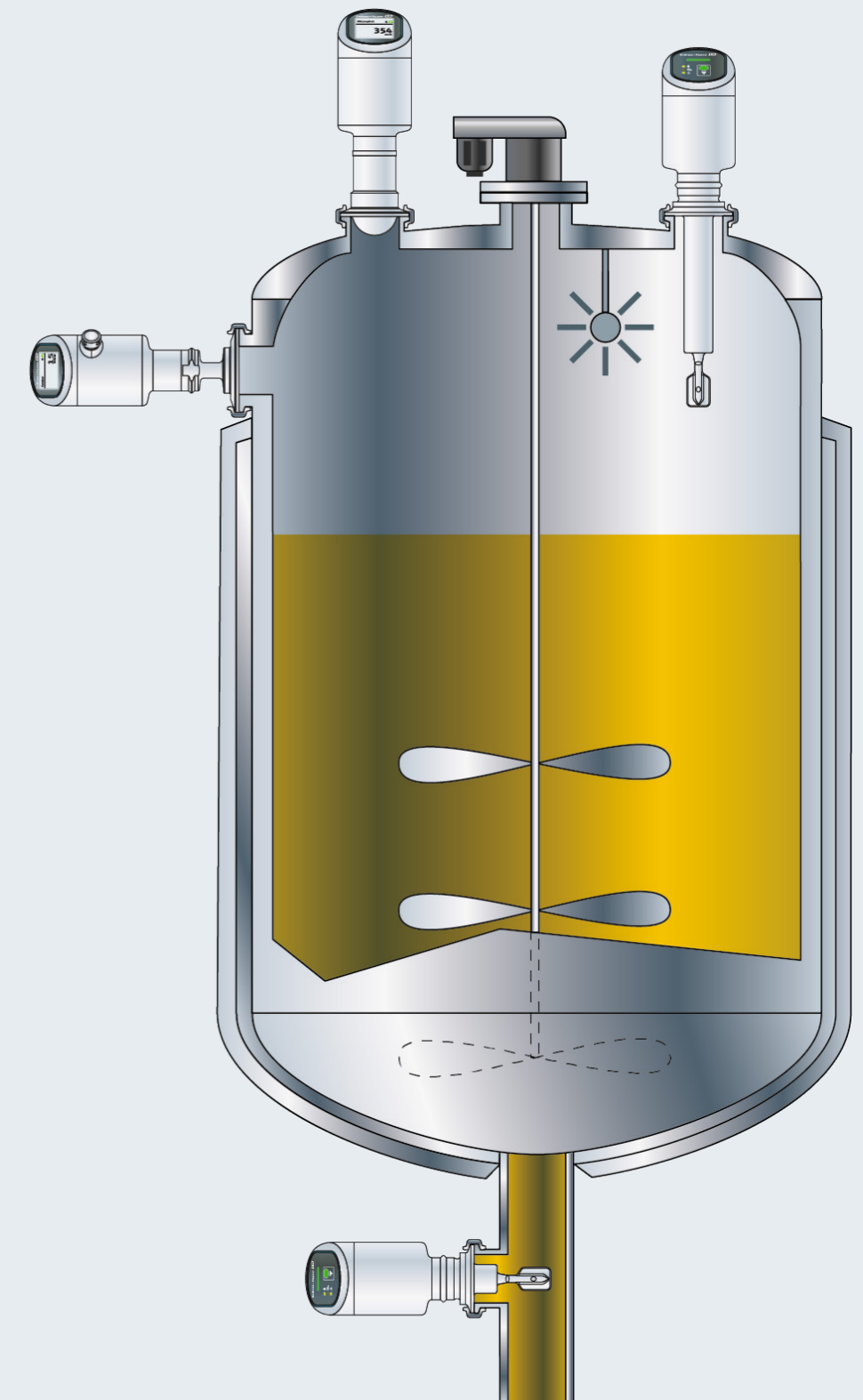
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Your challenges

- Reliable level control across a complete process, including CIP and SIP
- Narrow installation conditions
- Strong agitation and turbulent surfaces, foam formation

Our solution

The Compact Line standardizes all critical measuring points in the field of level and pressure at different scales from small to large tanks. The Micropilot FMR43 with 180 GHz frequency is developed for narrow installation conditions with a very focused beam angle. In case of formation of dense foam, the overall layer is typically measured. The Cerabar PMP43 provides the perfect solution to measure the head pressure of the tank. The Liquiphant FTL43 secures high and low level.





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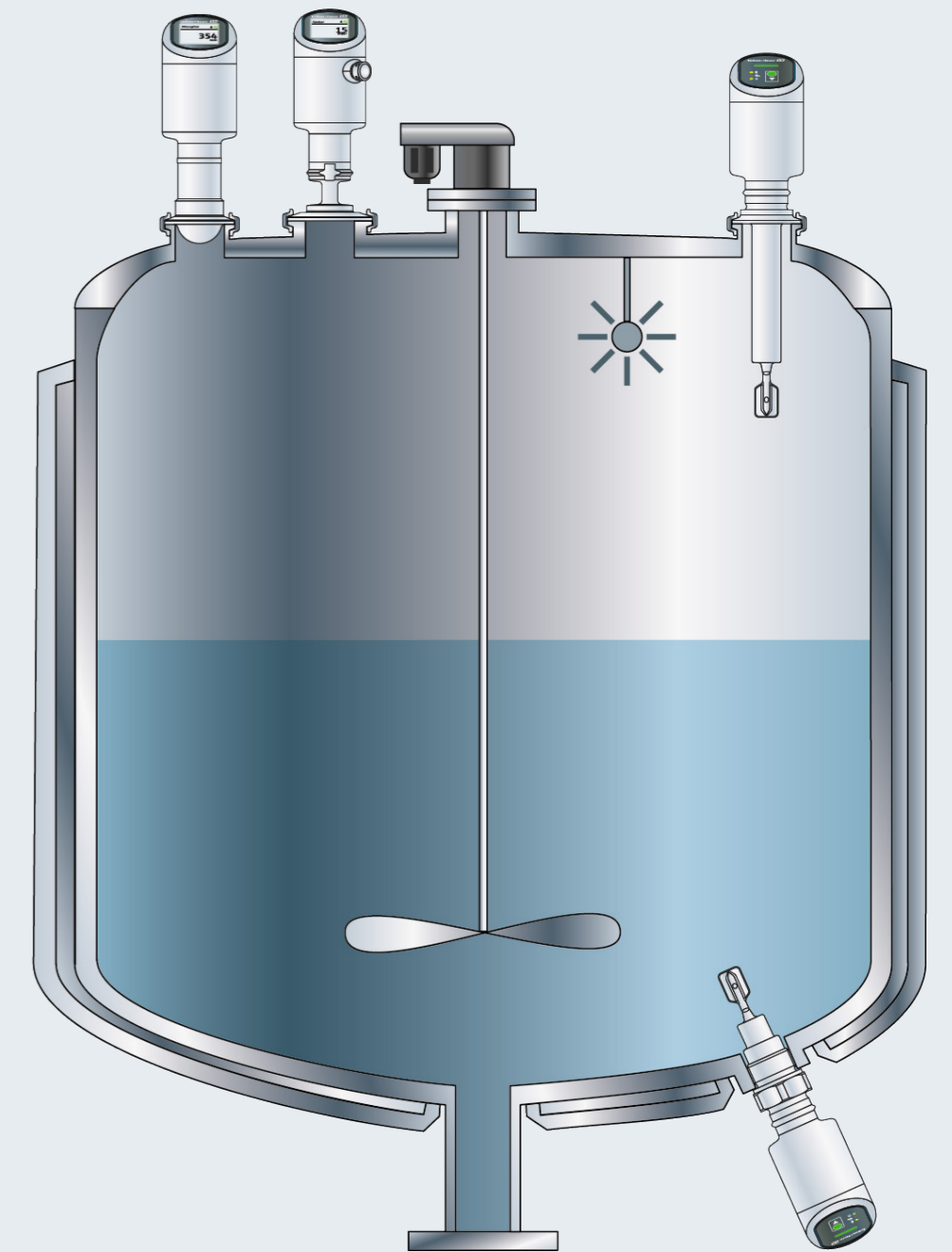
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Your challenges

- Dissolution of solid ingredients in liquid media
- Final concentration adjustment with high accuracy
- Changing media densities

Our solution

Numerous solutions need to be prepared to run biopharma processes. During their preparation, solid ingredients are dissolved in water and their final concentration is adjusted using level measurement. The non-contact radar Micropilot FMR43 is the perfect choice in this application. Its measurement is independent of media density and has a very high accuracy. The Cerabar PMP43 is used to control pressure during SIP, while the Liquiphant FTL43 prevents overflow and dry run.





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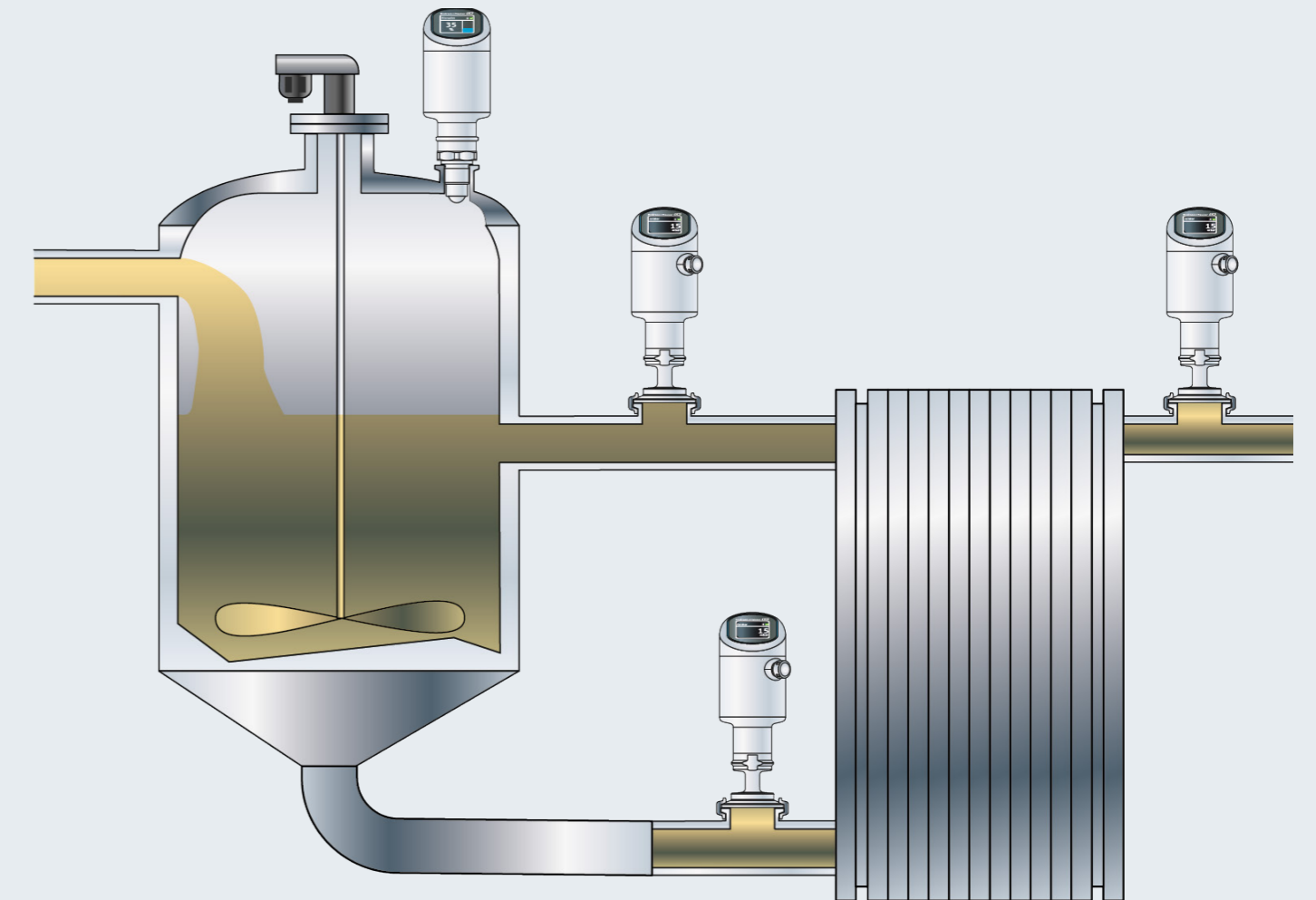
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Your challenges

- Precise control of the filtration step
- Avoid clogging or breakage of the filtration membrane

Our solution

The Cerabar PMP43 provides a precise pressure measurement to control the transmembrane pressure applied in the TFF system. This enables optimal product filtration and prevents membrane clogging or breakage. The Micropilot FMR43 provides perfect level regulation in the filling bowl with its 180 GHz frequency option and narrow beam angle.



Product overview

The Compact Line

Three measuring principles, for the measurement of point levels, continuous levels and pressure.

Liquiphant FTL43

Vibronic point level switch for level detection of liquids



- Proven vibronic technology works reliably in all pumpable liquids, without media adjustment
- Point level detection in pipelines as well as in process and storage tanks

Micropilot FMR43

Free space radar sensor for continuous non-contact level measurement



- Reliable measurement even under rapidly changing or turbulent process conditions
- Proven 80 GHz technology and an additional 180 GHz frequency option which ensures the use even in particularly small process tanks

Cerabar PMP43

Pressure transmitter for the measurement of absolute and gauge pressure



- The proven technology is suitable for the monitoring of pressure in liquids and gases
- Used for the measurement of pressure and hydrostatic level in pipelines, process and storage tanks



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