

RECHNER **SENSORS** HIGHLIGHTS 2026

**custom made
level control
for your industry**



FLEXIBILITY, QUALITY & INNOVATION

SENSOR TECHNOLOGY THAT THINKS AHEAD

Since 1965, Rechner Sensors has stood for innovation, reliability and genuine customer focus. As a family-owned company, we combine long-standing tradition with advanced sensor technology – engineered to deliver precision, safety and efficiency across a wide range of industries.

Our ambition is clear: **we develop sensors that make processes simpler, safer and more sustainable – tailor-made for your application.**

Proudly recognised as one of the “Most Crisis-Resilient Companies 2025” – Reliability is not just a promise, it is our standard.



DR. ING. ARMIN KOHLER
CEO, MANAGING PARTNER

SZ Institut

Krisensicherste Unternehmen 2025

RECHNER Industrie- Elektronik GmbH

Im Vergleich: 107.024 Unternehmen

In Kooperation mit:

Creditreform 

Süddeutsche Zeitung, Ausgabe 195/2025

A FAMILY BUSINESS WITH RESPONSIBILITY

For more than 15 years, we have been manufacturing our sensors using electricity generated by our own solar power plant – sustainable, clean and Made in Germany.

Following our expansion in 2025, we now operate with **100% self-generated energy**, feeding surplus power back into the grid and achieving climate-positive production.

Our commitment in numbers

100% delivery reliability – ensured through redundant, short supply chains and a warehouse stock designed for two years of availability. We deliver – guaranteed

100% tested quality – every single sensor undergoes multiple production checks and a complete final inspection

100% traceability – each device carries an individual ID number. We know precisely which components were used, when and by whom it was manufactured, tested and packed – as well as when and where it was shipped. Our traceability is fully transparent.

100% sustainable production – our sensors are manufactured with minimal resource consumption: short transport routes, energy-optimised processes and the consistent use of our own solar power.



BEE COLONIES ON THE WILDFLOWER MEADOWS SURROUNDING OUR PRODUCTION AND LOGISTIC BUILDINGS

26

26ER SERIE

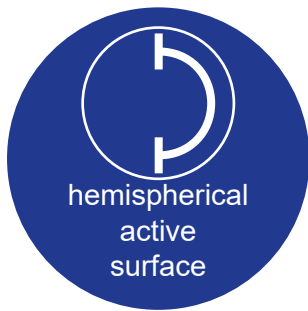
Smart Head – Intelligent Performance

The hemispherical active surface ensures that even sticky or viscous materials run off quickly – ideal for demanding applications. Available in PTFE or PEEK housings, with EX versions and a wide range of thread and process connections. Perfect for use with liquids, granulates, powders and paste

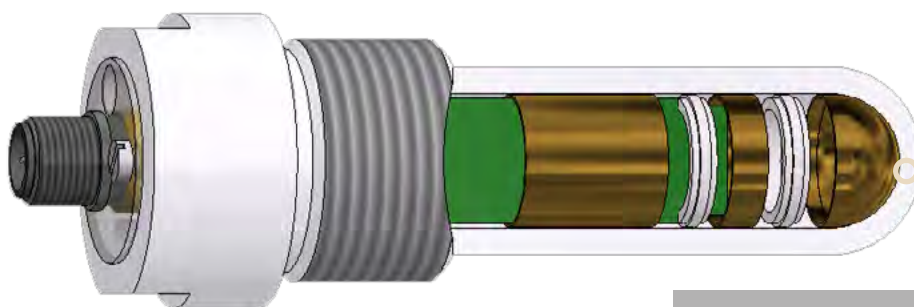
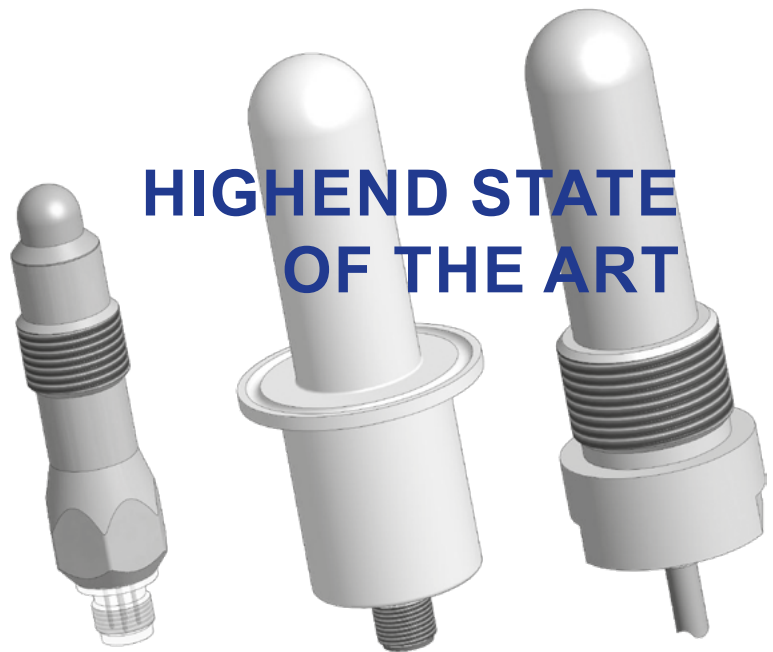


Capacitive sensors (KA1444 / KA1469 / KA1244)

Ideal for viscous, adhesive or otherwise difficult-to-detect media.



HIGHEND STATE OF THE ART



Larger active surface
Stronger primary signal



26 Series Capacitive Sensor (KA1611)

Designed for demanding level detection with automatic material compensation.

Also available as
EX versions for use in
hazardous areas



When a smart head makes all the difference

Sensors of the 26 Series do the thinking for you: one single setting – and they reliably handle all media. From liquids to powders, from light to highly viscous materials – intelligent electronics and innovative sensor geometry ensure dependable performance.

The hemispherical active surface minimises build-up, improves drip-off behaviour and guarantees stable, disturbance-free processes. Made in Germany, robust construction, and fully CIP/SIP compatible.





IO-LINK TECHNOLOGY

Making Our Sensors Smarter

Real-time data, diagnostic functions, historical tracking and in-process parameterisation – IO-Link unlocks the full potential of modern automation.



LevelMaster IO-LINK (KA1611)

Precise limit detection
– safe and digital via IO-Link.



Tri-Clamp



Capacitive Sensor IO-Link (KA1590)

Robust, reliable and ideal for both bulk materials and liquids.



IO-Link Master (IOLM01)

Interface between sensor and control system – enabling easy integration into any installation.



ATEX versions
available



BLUESENS

Capacitive Sensors for Smart Industry

Bluetooth Monitoring in Real Time

INDUSTRY 4.0



Smart Automation



Faster installation.
Simpler monitoring.
More precise control.

AUTOMATIC DATA LOGGING

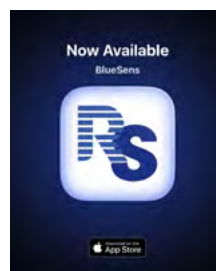


Capacitive Bluetooth Sensor (KA1403)

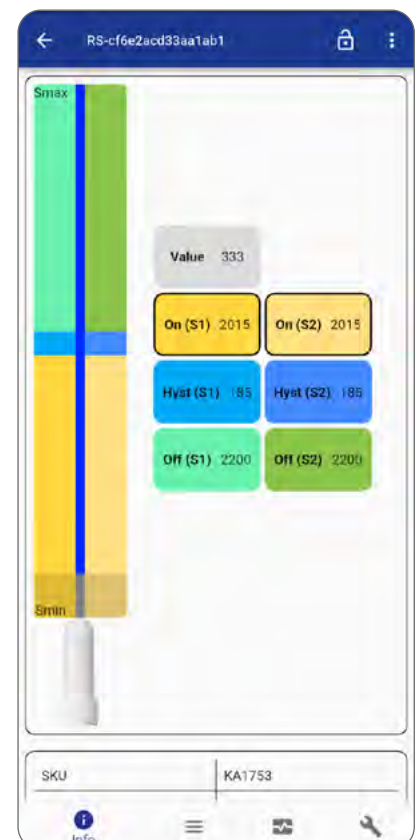
Full transparency in level measurement.

The sensor transmits its measurement data live via Bluetooth to the BlueSense app. This gives you an instant overview of your process conditions and allows you to verify at any time that your production is running optimally.

It brings transparency to your processes and enables real-time, data-driven decisions.



Settings &
measurement
values
live on
your
smartphone.





NEXT-GENERATION LEVEL PROBE

One Probe for All Dielectric Values – from ϵ_r 1.5 to 80

Continuous level measurement with just a single basic calibration – made possible by automatic compensation of dielectric constants across an exceptionally wide range (ϵ_r 1.5–80).

TiLevel

Easy Teach Setup with an Empty Tank:

- No product required for calibration
- No readjustment necessary
- Suitable for all media



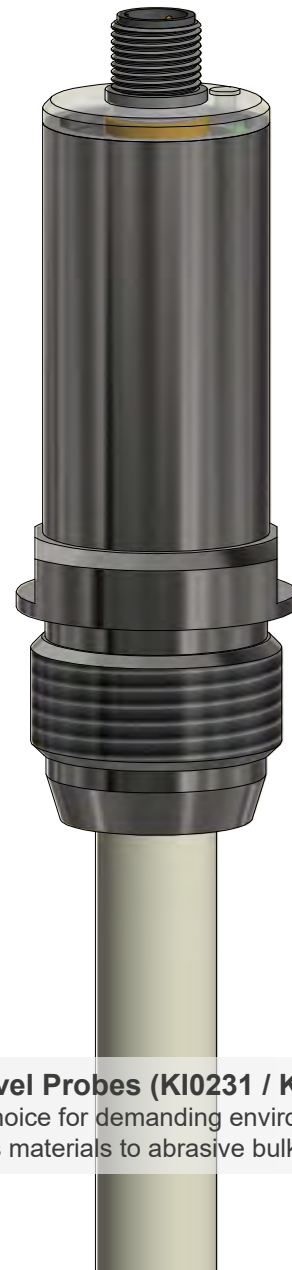
Technical data:

Capacitive measurement

Analogue
level monitoring

4...20 mA or
0...10 V

Automatic dielectric
compensation (DK)



Level Probes (KI0231 / KI0234)

The ideal choice for demanding environments
– from highly viscous materials to abrasive bulk goods.





METAL ROD PROBE

Engineered for Extreme Process Conditions

Robust. Slim. Precise.

A compact head and slender electrode make this probe ideal for tight installation spaces and demanding processes.



Rod Probe(KI0211 / KI0213)

Durable rod probe for challenging applications and abrasive media.



Rope Probe (KI0168)

Long measuring ranges and flexible installation – perfect for tall silos and deep tanks



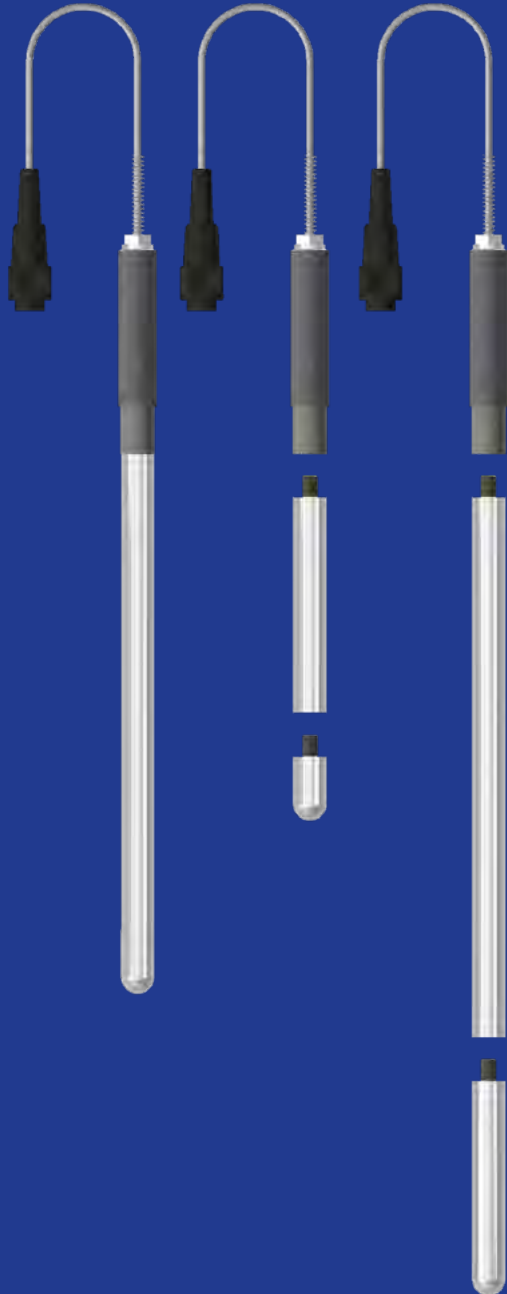
Also available with
Ex certification

NEW

THE FLEXIBLE PROBE

A Probe That Grows With Your Requirements

Thanks to its screwable and interchangeable measuring elements, this probe can be adapted quickly in both length and material properties. It offers maximum flexibility for a wide variety of level-measurement applications.



Modular Probe (LS0306 / LS0307)

Flexible probe for variable length configuration.

Matching Evaluation Unit (LA0111)

Simply connect – instantly measure.



Technical Data:

Active zone with anti-stick coating

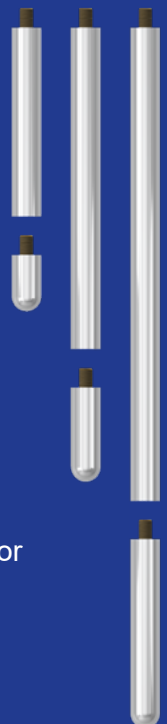


-10...+250 °C

Limit value + analogue measurement

Modular design for custom length adjustments

Level monitoring for non-conductive media



Easy to Adapt:

Replace, extend or shorten – exactly as your application requires.



200°C

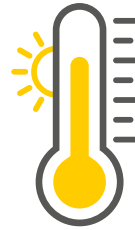
For Processes Where Things Get Really Hot

This customer-specific sensor was engineered for applications where temperatures of up to 200 °C occur continuously. Whether in plastics drying, granulate processing or specialised thermal processes – the KA1743 delivers reliable performance where other sensors fail.



Customised Capacitive Sensor (KA1743)

Designed for high-temperature applications, such as plastics drying up to 200 °C.



CUSTOMISED
Special Processes?
No Problem.



Our Development Department – Your Advantage

With in-house development and manufacturing expertise, we offer sensor solutions that go far beyond standard products:

- Custom modifications
- Efficient communication
- High production depth
- Tested and proven quality
- Confidential handling of project-specific know-how

SENSORS MADE FOR YOU

Customised solutions
– developed directly in our facility.



FOOD

Sensors for the Food Industry

Our sensors are designed for direct contact with food products and meet the highest hygiene and quality standards. They ensure maximum safety and precision across the full spectrum of media – from powders and granulates to liquids and even viscous materials.



Compact D30 Capacitive Sensor (KA1529)

Ideal for hygiene-critical applications.



Hygienic Capacitive Sensor (KA1685)

Suitable for direct food contact.



Capacitive M30 Sensor (KA1689)

Perfect for bulk materials such as beans, grains or pellets.





FDA-DECLARATION REGULATION (EG) 1935/2004

Our sensors are both FDA-approved and compliant with Regulation (EC) 1935/2004 and are therefore particularly suitable for applications where the highest safety and hygiene standards are required.



➞ **Capacitive M12 Sensor
(KA1693)**
Low surface adhesion.



PEEK
FDA 21
CFR 177.2415
conform

PTFE
FDA 21
CFR 177.1550
conform

RISK MANAGEMENT at its best

Batch ID? We go further!

Full traceability

We know exactly which device was manufactured with which components, at what time, by whom it was built, tested and packed – and additionally, when and where it was shipped. Our traceability is absolutely seamless

100% traceability

0% risk

With best regards to your risk management!

➞ **Capacitive Sensor D50 (KA1717)**
Crevice-free, smooth and hygienic.



**Capacitive Sensor
(KA1599)** ⬅️
Food-industry applications

HYGIENIC DESIGN

Our design philosophy places a strong emphasis on hygiene: smooth surfaces, minimalistic shapes and easily accessible areas simplify cleaning and significantly reduce the risk of contamination. This ensures that our products are not only functionally reliable, but also hygienically impeccable – ideal for demanding environments where cleanliness is paramount.



CHEMICAL

Sensors for the Chemical Industry

Precision and reliability under the most demanding conditions.



Capacitive Sensor (KA0343)

EX-approved,
resistant to aggressive media.



NEW



Bypass Sensor (KA1781)

13 mm diameter, perfect for installations
with limited space.



Capacitive Sensor (KA0390)

A durable industrial sensor for
chemical processes.



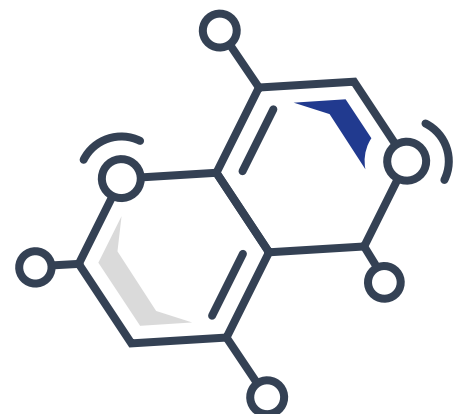
The chemical industry demands maximum productivity, safety, quality and cost efficiency.

Rechner Sensors deliver the right solution for level measurement, limit detection and leakage monitoring – ensuring reliable, process-safe and service-friendly operation.



Capacitive Sensor (813100)

Ideal for CIP/SIP cleaning and applications
requiring high hygiene standards.





LEAKAGE SENSOR WITH TiltGuard AND WHG

NEW

Our leakage sensor with TiltGuard technology and WHG approval (German Water Resources Act) is designed to detect leaks at an early stage, helping protect groundwater and surface waters..

Leakage Sensor:

Z-65.40-573

Easy installation and rapid detection of leaking liquids.

Overfill protection:

Z-65.13-572

Simple installation and reliable protection against overfilling.



LEAK Sensor (KA1544)



Early-warning leak detection sensor, WHG-compliant.



Capacitive Paddle Sensor (KA1237)



A versatile sensor offering many application possibilities.



TiltGuard Integrated Anti-Tilt Protection

- Automatically detects mounting position
- Ensures reliable leakage monitoring
- Suitable for any installation situation



EX PROTECTION FOR GAS AND DUST

The Right Solution for Every Installation Scenario



Inductive M18 Sensor (IA0092)

Ideal for Ex areas requiring Namur evaluation.



Inductive M30 Sensor (IA0109)

Rugged Ex sensor for metallic objects.



Capacitive Sensor (KA1190)

For conductive and non-conductive media – Ex-compliant.



LEAK Sensor (KA9037)

Early detection of leakages in Ex zones.



Stainless-Steel Tri-Clamp Sensor (KA1656)

Highly durable, precise and robust.



Capacitive Sensor (KA1426)

For demanding chemical and process applications.

100 % FINAL INSPECTION — EACH SENSOR INDIVIDUALLY TESTED

We apply the highest quality standards: every sensor undergoes a complete and individual final test. Instead of random sampling, we test every single device to ensure it meets our stringent requirements. This guarantees maximum reliability and safety – for all your applications.

* NAMUR is a German specific abbreviation (Normenarbeitsgemeinschaft für Mess- und Regeltechnik in der chemischen Industrie) and means intrinsically safe.



SAFETY FIRST

Reliable Protection Throughout Your Facility

Sensors for every Ex zone – dependable and secure.



Capacitive M32 Sensor (KA0819)

Robust design for Ex applications.



Level Probe (KF0602)

Reliable level measurement in Zones 1 & 2 and Zones 20, 21 & 22.



Capacitive M12 Sensor (KA1564)

Compact and precise – ideal for tight installation spaces.



Sensors available for every Ex zone





SIL 2

Safety for Critical Processes

Our sensors with SIL2 certification comply with the highest requirements for functional safety. They deliver reliable and reproducible measurement results, feature hygienic construction and are optimised for demanding cleaning processes.

This makes them indispensable wherever sensitive products are manufactured – such as pharmaceuticals, active ingredients or medical solutions.



Capacitive Sensor G 1/2" (KA2000)

Hygienic design for pharmaceutical and food applications.



Capacitive M18 Sensor (KA1283)

Compact design.



Capacitive M32 Sensor #KA1719

Suitable for detecting chemically aggressive products.



CIP/SIP
ready

121°C

hygienic
design



PHARMA

Sensors for the Pharmaceutical Industry

Developed specifically for the stringent hygiene and quality requirements of the pharmaceutical sector, our sensors are FDA-certified and EHEDG-compliant, ensuring process reliability and reproducibility. They are optimised for CIP cleaning, and the materials used fully comply with Regulation (EC) 1935/2004 on traceability and inertness.

Accurate measurement up to 250°C; ATEX versions suitable for Zones 20 and 0 are available. Compatible with all common process adapters.



HYGIENIC DESIGN

Perfect Cleanability – even for the most demanding applications



Hygienic Sensor (KA1244)

FDA-certified and EHEDG-compliant



Capacitive Sensor (KA0829)

CIP/SIP-capable,
durable and hygienic.



Tri-Clamp



Perfect
Cleanability



Capacitive M8 Sensor (KA1543)



Miniature sensor for
confined process areas.

Tri-Clamp



Hygiene adapters
available



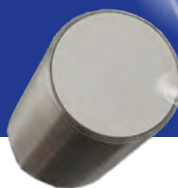
PLASTICS

Sensors for the Plastics Industry

Our sensors are ideal for the demanding conditions of plastics processing. Robust capacitive sensors, reliable limit detection and long-lasting designs – developed for powders, granulates, highly viscous plastics and even **fluidised materials**.



Ceramic surface protects against abrasive plastic granules



Ceramic Sensor M32 (KA1220)

Ceramic surface – ideal for abrasive granulates.



Capacitive M30 Sensor (KA1312)

Robust, reliable and universally applicable.



Capacitive Probe (KF0099)

Long active zone – perfect for bulk solids and powders.



Capacitive M18 Sensor (KA1259)

Compact design for tight installation spaces.



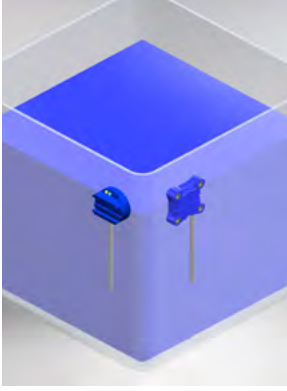
Capacitive M32 Sensor (818159)

Engineered for electrostatic charges

High electrostatic charges?

We have the sensor for that.





COMPACT INSTALLATION SOLUTION

– Perfect for Small Installation Spaces

Our sensors are designed specifically for applications where installation space is limited. The compact construction allows easy integration even in very tight environments – while maintaining full performance and high reliability. Ideal for applications where every millimetre counts.



EasyMount

P3

Programmable Sensor with
3 Output Modes:

- 2× Normally Closed
- 2× Normally Open
- Antivalent switching



EasyMount 50x20x5 (KA8951)

Ultra-compact
– for minimal installation depth.



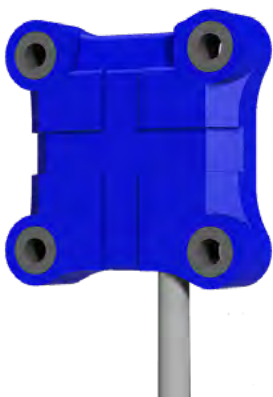
P3 Sensor 34x34x5 (KA8981)

Programmable sensor for flexible outputs.



1 Normally Closed / 1 Normally Open 34x34x5 (KA8957)

Variable output configuration.



Sensor 34x34x8 (KA1451)

Greater robustness in a
compact design.



SURFACE KIT

Flush-Mounted Probe for Small Containers

Surface sensor

APPLICATION OF THE YEAR

TASK:

The customer required analogue level measurement inside the container **without** any components protruding into it.

Example: An agitator prevents the installation of probes or any other internal fittings.

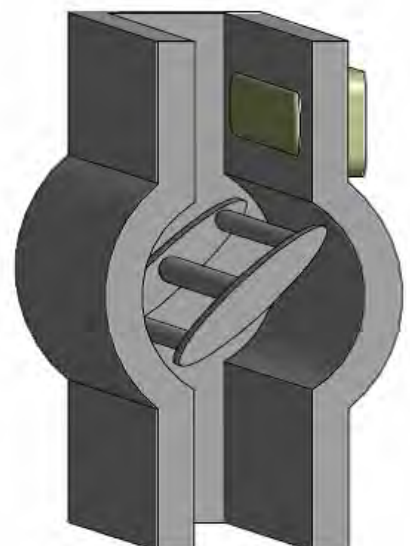
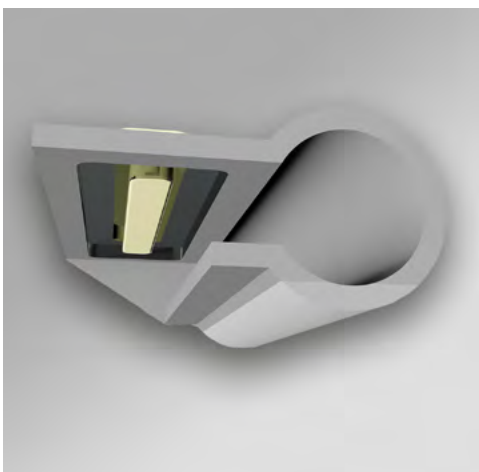
SOLUTION:

A flush-mounted probe



Flush-Mounted Probe

For precise analogue measurements in extremely small containers.





SMALL ANALOGUE MEASUREMENT

Versatile Solutions for Multiple Applications

Our compact analogue probes offer tailored solutions for a wide variety of applications. Their flexibility, minimal space requirement and high adaptability make them suitable for use in a range of industries – even in very compact systems or miniature containers.



Capacitive Prob (KI0046)

For precise analogue measurements in extremely small containers.

Analogue Capacitive Measurement

Precise level detection for compact applications.



Capacitive Probe (KI0125)

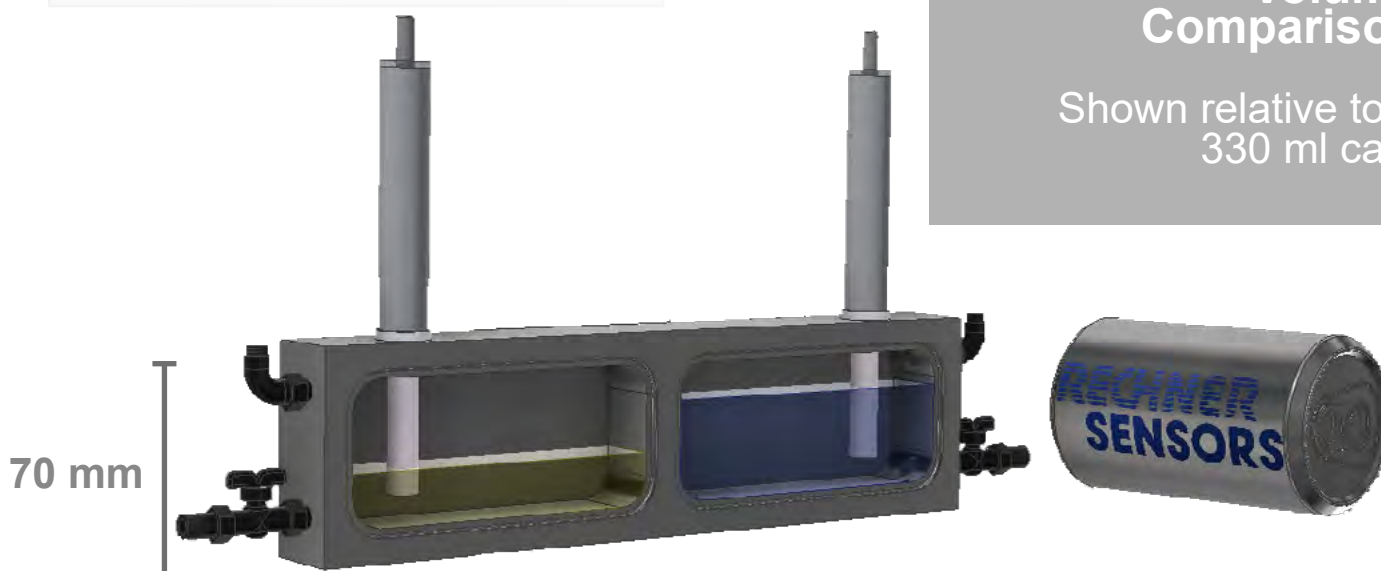
Ideal for compact processes.

Small Installation Space – Ideal for Miniature Containers

Perfect for installations where only minimal space is available.

Volume Comparison

Shown relative to a 330 ml can.







Every product from the company Rechner Sensors bears the CE mark in accordance with EU regulation 765/2008.



Within the United Kingdom, the UKCA marking is mandatory for technical products. The marking must be checked by the manufacturer and/or a notified body based in the UK for compliance with the relevant regulations. Once testing is complete, a declaration of conformity is issued.



RoHS-compliant devices meet the requirements of EU Directive 2011/65/EU on restricting the use of certain hazardous substances in electrical and electronic equipment.



ATEX stands for “*Atmosphères Explosibles*”. ATEX-certified devices comply with the ATEX Product Directive 2014/34/EU and the corresponding European standards for explosion protection.



Devices certified according to IECEx can be used internationally in potentially explosive atmospheres.



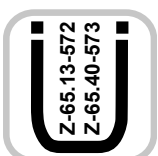
The China Compulsory Certificate (CCC) is a certification system ensuring product quality for equipment sold on the Chinese market. Certification by Chinese authorities is required for equipment used in potentially explosive areas.



ETL Listed is a North American safety mark. Products with this certification are tested, approved and manufactured in accordance with UL/CSA safety standards and requirements.



Devices with this symbol are permitted for direct food contact in accordance with Regulation (EC) No. 1935/2004.



The Water Resources Protection Act (WHG) regulates the protection and use of groundwater and surface waters such as rivers, lakes and seas. It is a German national law.



IO-Link is the first globally standardised IO technology for communication with sensors and actuators. It represents the evolutionary advancement of the proven and widely used connection technology for sensors and actuators.

This brochure is an in-house design.
The concept, layout, and text are all
designed and produced internally —
just like our sensors.



RECHNER

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Family business since 1965