

# RECHNER SENSORS

## HIGHLIGHTS

2024

custom made  
level control  
for your industry



## **FAMILY BUSINESS AT AN ADVANTAGE**

### **FLEXIBILITY, QUALITY, DIVERSITY**

Family can be chaotic - our diversity helps us learn and grow from generation to generation.

Family cares about everyone - our values grow from the appreciation of our children.

Family is together - this is true when family grows from a few to a hundred.

Family is sustainable - families look to the future and are inherently long-lasting.

Success is a family affair. Consistency is just as much a part of the family business as reinvention.



DR. ING. ARMIN KOHLER  
CEO, MANAGING PARTNER



## APPRECIATING VALUES

Practised sustainability in every area

### SIMPLY START - WE LIVE IT



Care for our immediate environment:

- Bees on our own company premises
- We utilise roof surfaces for solar power (60% own power)

Long-term thinking:

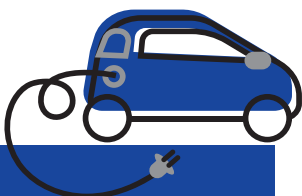
- Development of durable and high-quality sensors conserves customer satisfaction and sustainability
- Made in Germany

Local support:

- Planting of trees
- Protection of the forest
- Investing in the future with school and sports projects
- Support of security forces (police, fire brigade)

Making a big difference:

- Environmental packaging
- Reducing plastic waste - conserving resources and saving space
- Sensors that make the world a safer place



BEE COLONIES ON THE WILDFLOWER MEADOWS IN FRONT OF THE PRODUCTION AND WAREHOUSE BUILDINGS



## OPTIMIZED LEVEL PROBE

Automatic material detection, compensation, and adjustment.

Continuous level measurement with one setting for all materials thanks to automatic compensation of the dielectric constants in a wide range from  $\epsilon_r$  1,5 to 80.

# TiLevel

Setting with empty container:

No filling material necessary

No readjustment

One setting for all media



Level probes  
#KI0231  
#KI0234



## METAL ROD PROBE

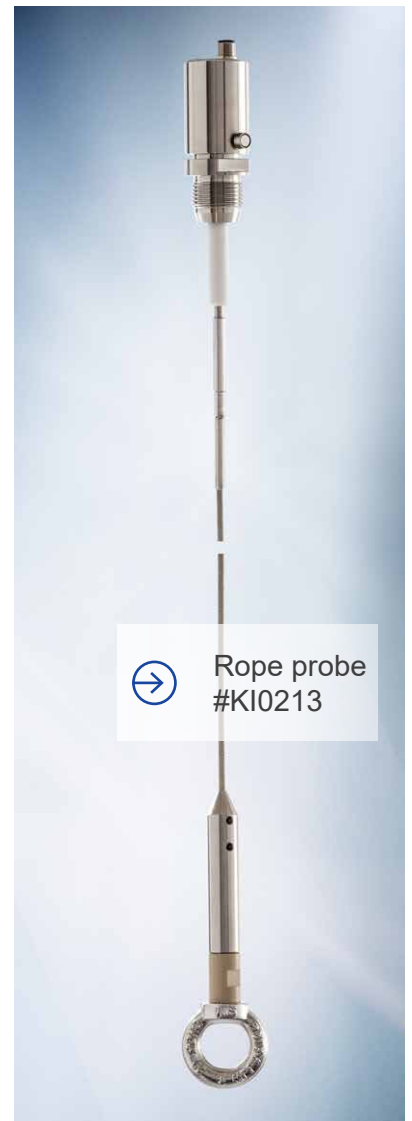
Use under extreme process conditions

small, practical, exceptional

The small head and slim electrode make the rod probe an absolute innovation.



➞ Rod probe  
#KI0168  
#KI0211



➞ Rope probe  
#KI0213

Versions available with



Ex certificate

IECEX

UKCA

Flexible with rope





## FOOD

### Sensors for the food industry

Our sensors are suitable for direct contact with food and fulfill the highest hygiene and quality standards. They offer safety, sterility and precision for the entire food media spectrum - whether powders, granulates, liquids, or viscous pastes.



Capacitive  
Sensor D30  
#KA1529



Capacitive  
Sensor  
#KA1685



Capacitive  
M30 Sensor  
#KA1689





**FDA-DECLARATION**  
**REGULATION (EC) 1935/2004**  
Rechner Sensors overperform

**PTFE**  
FDA 21  
CFR 177.1550  
conform

**PEEK**  
FDA 21  
CFR 177.2415  
conform



→ Capacitive  
M12 Sensor  
#KA1693



→ Capacitive  
Sensor D50  
#KA1717



LevelMaster available  
in different versions: For  
granules, spices, ketchup...



## CHEMISTRY

### Sensors for the chemical industry



Capacitive  
Sensor  
#KA0343

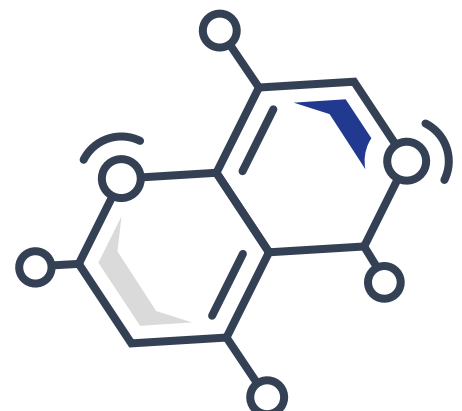


Capacitive  
Sensor  
#KA0390

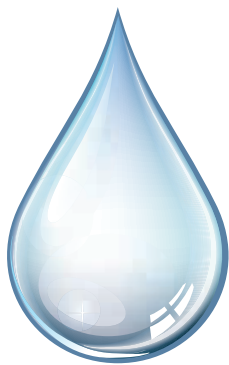


Capacitive  
Paddle-Sensor  
#KA1237

The chemical industry works with state-of-the-art technology and has high demands on productivity, quality, and efficiency. Rechner's measurement technology offers the correct sensors for level measurement, level detection, and leakage detection. Reliable, process-safe and service-friendly.







## WHG WATER RESOURCES ACT

To protect our water

### Leackage sensor:

Z-65.40-573

Simple installation and quick detection of leaking liquids.

### Overfill protection:

Z-65.13-572

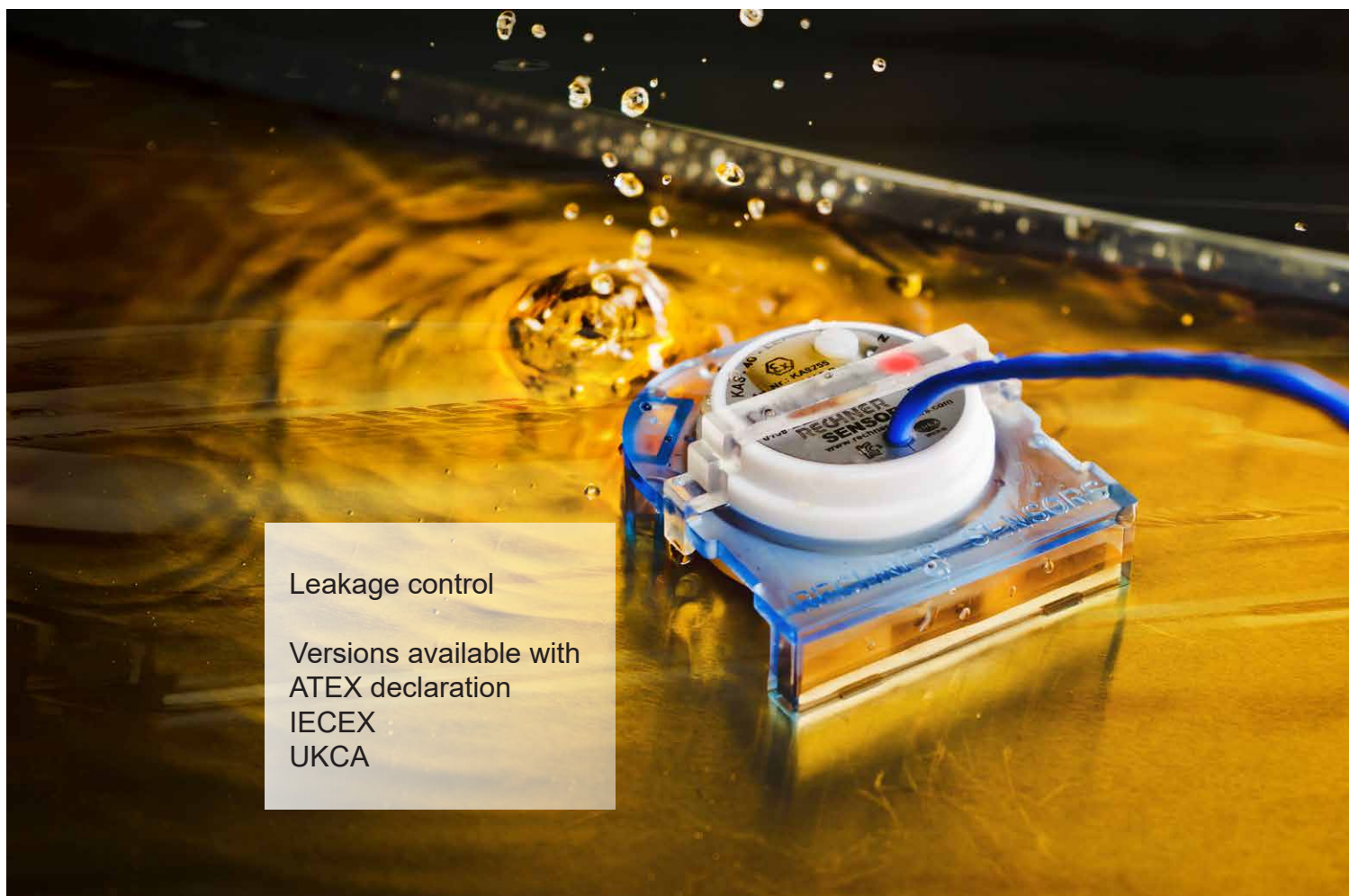
Simple installation and secure protection against overfilling.



LEAK  
Sensor  
#KA1544



Capacitive  
Sensor  
#813100



Leakage control

Versions available with  
ATEX declaration  
IECEX  
UKCA



## EXPLOSION AREA

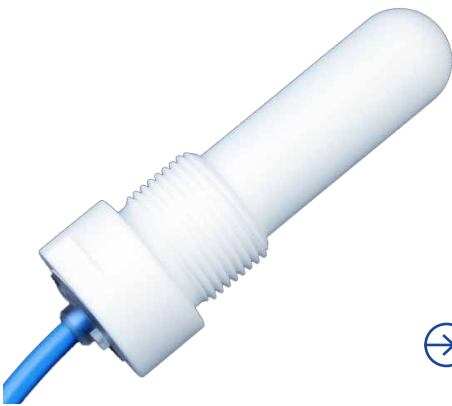
The correct solution for every installation situation



Inductive  
M30 Sensor  
#IA0109



Inductive Namur\*  
M18 Sensor  
#IA0092



Capacitive  
Sensor  
#KA1190



LEAK  
Sensor  
#KA9037



Brass  
M30 Sensor  
#KA1397



Capacitive  
Sensor  
#KA1426

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



## SAFETY FIRST

Protection in every area of your company



→ Large  
M32 Sensor  
#KA0819



→ Level probe  
#KF0602



→ Small  
M12 Sensor  
#KA1564



Sensors for every  
ATEX Zone available





## PHARMACEUTICALS

### Sensors for the pharmaceutical industry

Specially developed sensors with FDA and EHEDG certification for the high hygienic quality requirements of the pharmaceutical industry offer process reliability and repeatability. They are optimised for CIP cleaning. The materials used meet the requirements of EC1935/2004 with regard to traceability and inertness. Precise detection in processes up to 250°C and ATEX-certified variants for zones 20 and 0. Our sensors are available with all common process adapters.



Sensor  
with EHEDG  
#KA1244

## HYGIENIC DESIGN



Capacitive  
Sensor  
#KA0829



Perfect  
cleanability



Small, capacitive  
M8 Sensor  
#KA1543



Hygiene adapter  
available





## SIL 2

Safe medicine thanks to optimal hygienic design and reproducible quality.



Capacitive  
M32 Sensor  
#KA1719



**CIP**  
Clean in Place

Clean  
constructed



Capacitive  
Sensor  
#KA0869



Capacitive  
M18 Sensor  
#KA1283







## PLASTICS

Sensors for the plastics industry



Ceramic surface protects against  
abrasive plastic granules



Ceramics  
M32 Sensor  
#KA1220



Capacitive  
M30 Sensor  
#KA1312



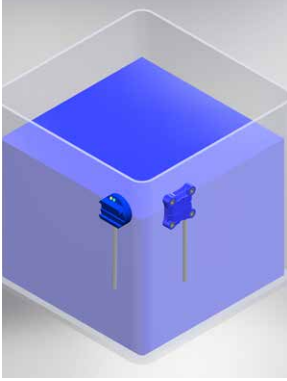
Capacitive  
probe  
#KF0099



Capacitive  
M18 Sensor  
#KA1259



Capacitive  
M32 Sensor  
#818159



## EASY MOUNT

Easy to install

# EasyMount

NEW



50x20x5  
Sensor  
#KA8951

## P3

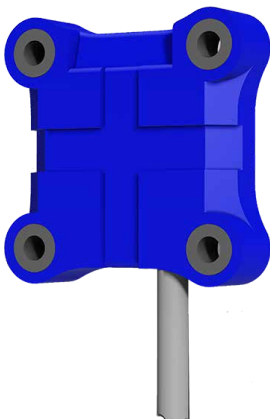
Fully programmable

3 Output modes:

2x normally open, 2x normally closed, or anti-valent



34x34x5  
P3: #KA8981  
1 normally open and 1 normally closed outputs: #KA8957



34x34x8  
Sensor  
#KA1451



Capacitive  
Sensor D30  
#KA1147



## SMALL ANALOGUE MEASUREMENT

For a wide range of applications



Small  
probe  
#KI0046

analogue capacitive  
measurement

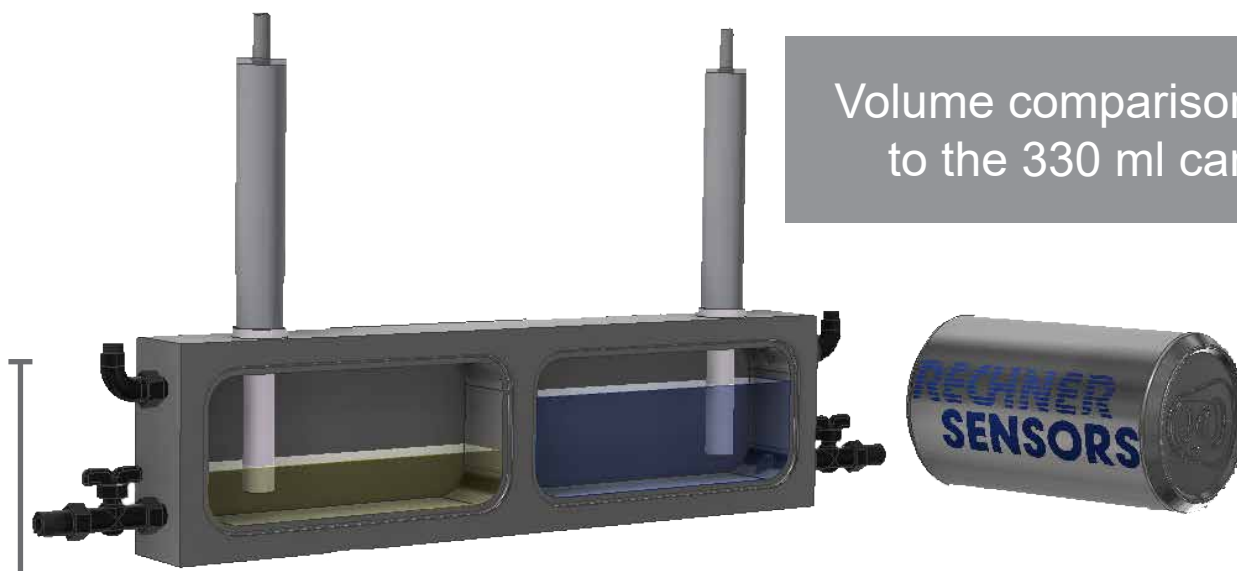
Small installation space  
Small containers



Small  
probe  
#KI0125

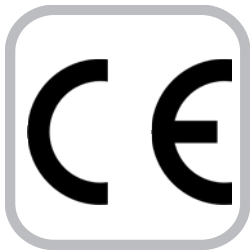
Volume comparison  
to the 330 ml can

70 mm



This brochure is an in-house design.  
The concept, layout, and text are all  
designed and produced in-house.  
To be continued.

Like our sensors.



Every product from the company Rechner Sensors bears the CE mark according to EU regulation 765/2008.



Devices that are RoHS compliant are devices that comply with the EU Directive 2011/65 / EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



**ATEX** is the abbreviation for "ATmosphère EXplosive". ATEX certified devices are certified according to the ATEX product directive 2014/34/EU and the European standards for **explosion protection**.



Devices certified according to IECEx can be used internationally in explosive-endangered areas.



ETL Listed is a **security seal** of approval for the **North American** market. These devices are tested, certified and produced in accordance with UL / CSA safety standards and requirements.



Sensors with this logo are allowed to come into **contact with food** according to the Regulation (EC) No. 1935/2004.





The EHEDG certification is based on **hygienic construction and design**, as well as materials to guarantee the hygienic handling and processing of food and thereby supports the EC **food guidelines**.



IO-Link is the first globally standardized **IO technology** for communicating with sensors and actuators. IO-Link is the evolutionary further development of the previous, tried and tested connection technology for sensors and actuators.



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



The **China Compulsory Certificate (CCC)** is a **certification system** for the **standardisation** of product quality for equipment placed on the market in **China**. Certification by Chinese certifiers is mandatory for equipment in potentially **explosive atmospheres**.



The **Water Resources Protection Act (WHG)** regulates the **protection** and **use** of **groundwater** and **surface waters**, e.g. rivers, lakes, seas, etc. It is a **german national law**.

The logo for RECHNER, featuring the word in a bold, blue, sans-serif font. The letters are composed of horizontal bars, giving it a modern, industrial feel.

# RECHNER

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**Family business since 1965**