



YOUR PARTNER FOR  
MEASUREMENT TECHNOLOGY AND AUTOMATION



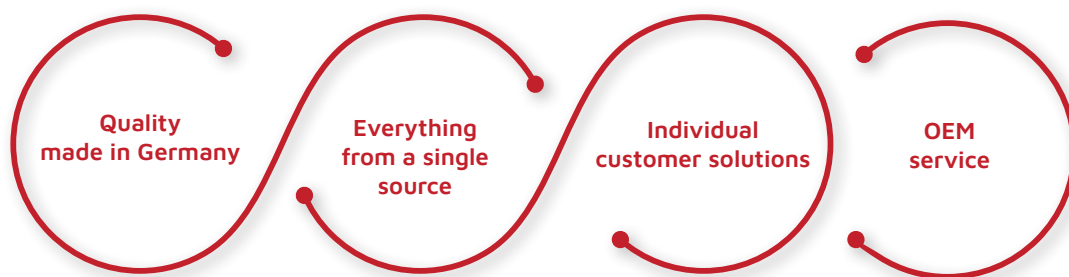
MADE IN GERMANY

# WE MEASURE OURSELVES AGAINST THE HIGHEST STANDARDS

**As an innovative and competitive company for measurement technology and control systems, ACS Control-System is your expert partner – and has been for more than 30 years.**

ACS Control-System – a family-run company established in 1990 by Hermann Stümpfl – has been working in the field of industrial automation ever since. Marianne Stümpfl and her son Joachim, the Managing Directors, continue the tradition of striving for innovation and technological development.

Starting with the production of fill level meters, you as a customer can now fall back on a wide range of products made in-house. System components such as controllers, recorders, counters and sensors are successfully expanding our sales programme.



## **QUALITY MADE IN GERMANY**

Our product range is put to successful use in all sectors of industry, and includes fill level, pressure, temperature and flow sensors. Produced in Germany and sold worldwide, up to 90% of the product material verifiably comes from Germany.

## **FULL SERVICE**

Starting with hardware and software development, moving over manufacturing, and finishing with professional aftersales management, we offer you all our services from a single source – never losing sight of customer satisfaction.

## **INNOVATIVE STANDARD AND CUSTOMISED SPECIAL SYSTEMS**

Our portfolio includes both series products and individually developed solutions designed to meet a wide range of requirements. Our flexible development team and perfect logistics means we can produce customised solutions within an extremely short period of time.

## **OEM SERVICE**

We develop, design and produce complex measurement technology solutions – even in series – in line with specific customer requirements. What's more, we offer embedded software development, including the implementation of digital interfaces. We guarantee transparency and consistently high quality through standardised process sequences.



## FROM EGGENFELDEN TO THE WORLD

All the relevant production steps are completed at our headquarters in Eggenfelden site. Routine inspections of the manufactured products ensures the consistently high quality that we deliver thanks to a high degree of in-house production.

Our sales and service specialists work in close contact with our very own Development Department. Short communication channels and development cycles are the result of this flat structure – so we never lose sight of the best possible solution to the measurement tasks in question. Thanks to our international partners, ACS is now operational beyond Germany's borders. Our sales partners around the world provide the best possible advice and offer the full range of ACS services in your local area.



|   |   |   |
|---|---|---|
| <br>FILL LEVEL                 | <br>LEVEL    | <br>PRESSURE             |
| <br>TEMPERATURE              | <br>FLOW   | <br>VISU-<br>ALISATION |
| <br>MEASURING<br>TRANSDUCERS | <br>SENSOR | <br>IOT                |

## RANGE OF APPLICATION

## ... AND STRENGTHS THAT SET US APART

Our very own Development Department • Short development and production times  
 High in-house production depth • Complete production of mechanical components  
 Circuit board assembly • Ideally developed aftersales service  
 Development and production exclusively in Germany

## AWARDS / CERTIFICATES

We believe it is our responsibility to supply products that undergo stringent inspection, that comply with the applicable standards and norms, and that are made up of tested and totally reliable components.

ACS Control-System GmbH is certified according to DIN ISO 9001, the highest level within the ISO 9000 series of standards. This doesn't just refer to one part of a company, but rather to design, development, production, assembly, and even to service.

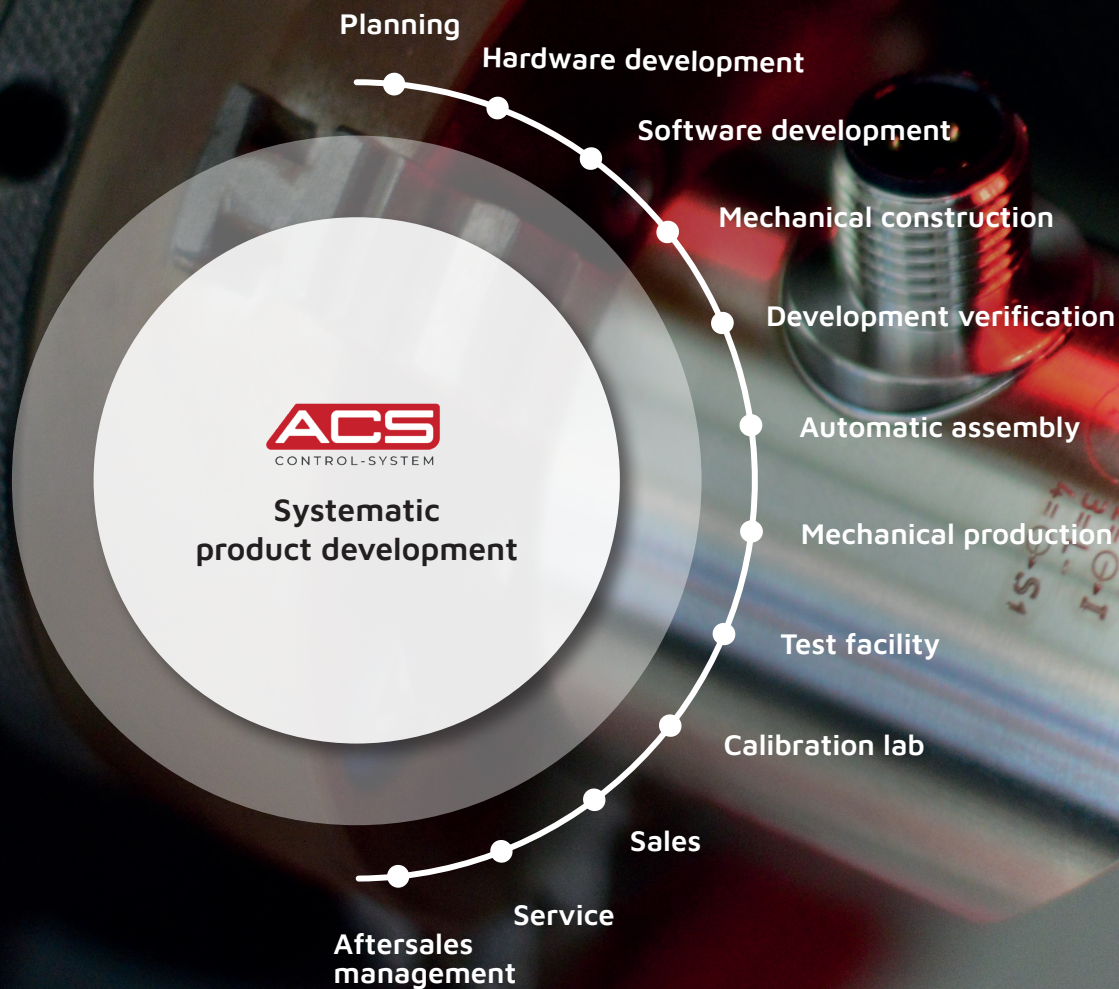




## MEASURED BY PERFECTION

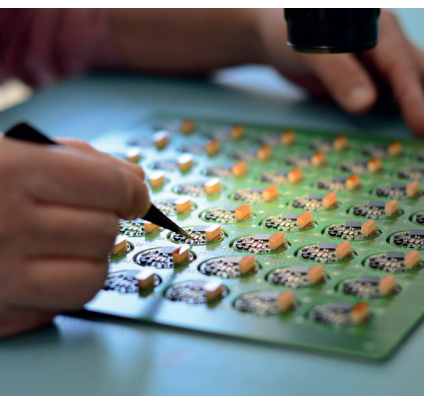
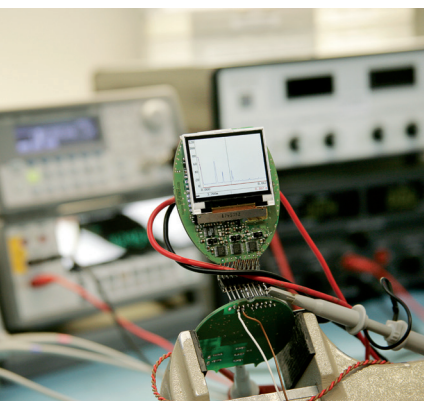
Thanks to 30 years of experience, ACS Control-System has developed a perfectly coordinated production process. The 12 consecutive phases follow an optimised plan from product development to aftersales management.

This product development process is geared towards outstanding quality, not to mention applicable standards, and has proven its worth over the years.



# PROCESS





## ACS Control-System's milestones:

- 1990 ACS Control-System GmbH is founded by Hermann and Marianne Stümpfl**  
DC power supplies for control cabinet installation are made in-house
- 1992 HYDROCONT® K is launched on the market.**  
It is the first-ever hydrostatic fill level sensor with a flush-mounted, capacitive ceramic measuring cell on the market
- 1993 HYDROCONT® B is launched on the market.**  
It is the first-ever hydrostatic fill level probe with a capacitive ceramic measuring cell designed for carrying cable suspension on the market
- 1995 Certification according to ISO 9001**
- 2001 PRECONT® S pressure sensors are launched on the market**
- 2004 HYDROLOG is launched on the market.** It is a battery-powered level measurement system with GSM remote data transmission
- 2005 PRECONT® PS is launched on the market.**  
These are pressure sensors with optical buttons
- 2012 SONICONT® USN is launched on the market.**  
This is an ultrasonic level measurement solution
- 2013 Hermann Stümpfl hands over management to his son, Joachim Stümpfl**
- 2014 FLUXICONT® FP flow meter.**  
This is a robust, hygiene-optimised calorimetric flow monitor for liquids and gases with optional temperature monitoring
- 2015 SONICONT® USG and USF.** These are ultrasonic fill level transmitters in separate versions for contactless fill level measurement
- 2016 DPA digital process display as an Ex version.**  
Simple and clear for displaying, processing, converting and galvanically isolating electrical standard signals, even from potentially explosive areas  
**New PRECONT® PS4 / PL4 SERIES.** Greater clarity, outstanding readability and optimum operability  
**25th anniversary:** Specialist in Lower Bavaria for measurement technology and control systems
- 2017 FLUXICONT® FS4 series of flow monitors.**  
Clarity, outstanding readability and optimum operation due to 3-button display with tactile feedback  
**New range of high-class sensors from ACS.** HYDROCONT® HN4, PRECONT® PN4 and SONICONT® USN4
- 2018 The ACS Web Portal is developed**
- 2020 Level measurement is linked to the IoT**  
**Flood early warning system goes operational**
- 2021 IoT solution – smart and flexible**
- 2022 HYDROCONT® HP4 as ATEX, THERMOCONT® TK4, PS5 pressure transducers and RADARCONT® are launched on the market**



# FILL LEVEL

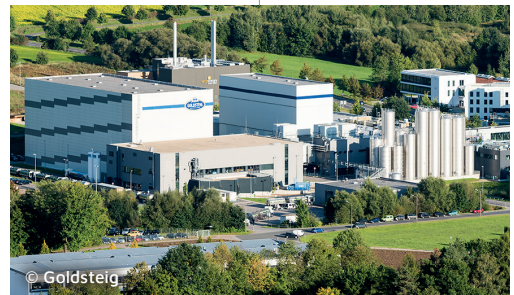
**One of our core competencies is measuring the fill level in liquids and bulk solids.**

Fill level measurement technology from ACS Control-System offers sensors for continuous measurement and level detection in liquids and bulk solids. Since we have a comprehensive selection of measuring principles and device types, we can offer a solution to suit every task.



## **ACS Control-System's technologies Fill level measurement:**

- **Conductive**  
Sensors for conductive level detection in conductive liquids, slurries and pastes: ROPE AND ROD PROBES
- **Hydrostatic**  
Sensors for hydrostatic, continuous fill level measurement in liquids: HYDROCONT®
- **Ultrasonic**  
Ultrasonic sensors for continuous fill level measurement in liquids and bulk solids: SONICONT®
- **Radar**  
Radar sensors for continuous fill level measurement in liquids and bulk solids: RADARCONT®
- **Capacitive**  
Sensors for capacitive level detection in liquids and bulk solids: CAPCONT®
- **Vibration**  
Fill level limit switches with vibrating fork for use in liquids, slurries and pastes: VIBROCONT®
- **Mechanical**  
Rotary paddle sensors for level detection in bulk solids: SILOCONT®
- **Microwaves**  
Microwave limit switches for liquids and bulk solids: MYCROCONT®



# TESTIMON

AUGUSTINER BRÄU MÜNCHEN   GOLDSTEIG KÄSEREI   MUNICH CITY UTILITIES   BERGADER PRIVATKÄSEREI





# LEVEL

ACS Control-System combines classic level measurement with the digital world.

**FLOOD  
EARLY WARNING  
SYSTEM**

**GROUNDWATER  
MEASUREMENT**

**SURFACE  
WATER MEASUREMENT**

Level measurement requirements have increased in recent years. We're not just referring to legal regulations, but also to natural hazards. They all require measured values to be more reliable, accurate, timely and certain.

This is exactly where the newly developed complete system from ACS Control-System comes into play. New, reliable transmission paths that automatically send the measured values to the ACS Portal have been created for both groundwater measurement and separate level measurements. On the portal, the measured values are made available in illustrative tables and graphics or in map view (based on Google Maps).

Redundancy measurement guarantees reliable measured values, since the measuring system independently verifies using two physically independent measurements. The DLF4 data logger, like the Hydrolog® HLF4, issues an alert if there are deviating values, meaning there is next to no need for manual control soundings.

ACS Control-System GmbH offers holistic solutions for you, from planning the measuring parts to maintenance – all from a single source.



## ACS Control-System's technologies Level measurement:

- **Hydrostatic**  
Level probes according to the hydrostatic measuring principle: HYDROCONT HP4®, HYDROCONT B®
- **Ultrasonic**  
Level measurement based on ultrasonic sensors: SONICONT USP4®
- **Data transmission / data loggers**  
Data loggers for recording the measured values and automatic transmission to the ACS Web Portal: DLF4® DATA LOGGER, HYDROLOG HLF4®





# PRESSURE

Pressure measurement technology has always been part of ACS Control-System's core competences. Whether you're looking to measure relative pressure, absolute pressure or a vacuum, we've got the right sensor for you.

Choose from a wide range of pressure sensors, from the simple screw-in sensor with plug-in connection, to the high-quality, food-grade pressure transmitter with switching outputs and display indicator. But that's not all. We also offer the option of getting pressure sensors made in line with your requests and requirements.



## ACS Control-System's technologies Pressure measurement:

- **Pressure transmitters with a display**  
Measurement of relative and absolute pressure in gases, vapours, liquids and dusts:  
PRECONT® PN4/PS4
- **Pressure transmitters without a display**  
Fixed or parametrisable using HART and IO-Link and Modbus®:  
PRECONT® PU4/PK4



© Vogelsang



© Bayer



© SWM/Rainer Viertelboeck

# TESTIMON

VOGELSANG VION PIASTEN ERLANGEN MUNICIPAL UTILITIES SEITZ ELEKTRIK





# TEMPERATURE

Temperature sensors and measuring transducers – well equipped for all measuring tasks.

ACS Control-System offers a wide range of industrial temperature measurement technology. Our sensors deliver precise and reliable measured values (that are stable in the long term) under extreme conditions. A wide range of process connection types in conjunction with different electronics variants means that a solution can be put together for every application. You are also welcome to contact us with any special requests you might have. Our Design Department will come up with a solution together with you.



## ACS Control-System's technologies Temperature measurement:

- **Pt100 resistance thermometers**  
Universal resistance thermometers with high-quality platinum measuring resistors:  
Pt100
- **Digital temperature sensors**  
Digital temperature sensors with display, analogue outputs and switching outputs:  
THERMOCONT®
- **Infrared**  
Infrared thermometers for contactless temperature measurement:  
THERMOHUNTER®
- **Compact thermometers**  
Compact screw-in thermometers with 4 – 20 mA analogue output:  
THERMOCONT®
- **Contact sensors**  
High-quality contact sensors for accurate temperature measurement on pipes and surfaces:  
PTU®, PTV®





# FLOW

The demands placed on industrial flow measurement technology have continuously increased in recent years. So modern measuring instruments have to work reliably and with extreme precision, even under tough conditions.

Flow meters from ACS Control-System have been designed with these requirements in mind, and offer measured values that are stable in the long term, even under harsh operating conditions.



## ACS Control-System's technologies Flow measurement:

- **Calorimetric**  
Flow switches for liquids  
and consumption meters for compressed air and gases:  
FLUXICONT®FS4/FU4, FLOWGAS®
- **Electromagnetic**  
Electromagnetic flow meters  
for conductive liquids:  
FLOWCONT®MAGSMALL
- **Ultrasonic**  
Ultrasonic flow meters for conductive  
and non-conductive liquids:  
FLOWCONT®UN



# TESTIMON

KNORR BREMSE   BAHLEN   BRANDT   HIPPE   LAMBERTZ





# VISUALISATION

Requirements in modern measurement technology extend far beyond recording mere measured values. Sensors have to be supplied with power, measured values have to be displayed and processed, limits have to be monitored, and data has to be archived in a tamper-proof manner.

**The visualisation devices from ACS Control-System can reliably complete all these tasks.**

## ACS Control-System's technologies Visualisation:

- **Digital in-built instruments**  
For displaying measured values with a bright LED display:  
DAK-101, DAK-111, DAL-101, DAL-111
- **Paperless recorders**  
For displaying, analysing and archiving measured values:  
REGICONT®RCD-450, REGICONT®RCE-300
- **Process displays**  
For displaying measured values, data logging and limit formation:  
DPA PROCESS DISPLAY





# MEASURING TRANSDUCERS

The multifunctional measuring transducers and isolating amplifiers from ACS Control-System perform a wide range of functions in a whole host of applications. They ensure safe galvanic isolation, signal conversion, signal scaling, signal amplification, alerting and control. User-friendliness, ease of use and absolute reliability are the focal points.

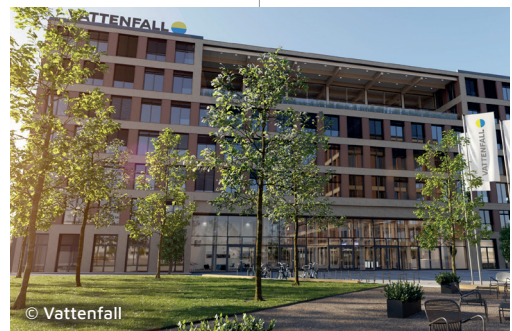
**A good isolating amplifier is noticeable by the fact that it isn't noticeable.**

## ACS Control-System's technologies Measuring transducers:

- **Temperature transmitters**  
Measuring transducers for converting temperature sensors into standard signals, as head transmitters or DIN rail devices:  
TRANSCONT®
- **Supply isolators**  
Isolation amplifiers with measuring transducer supply, for Ex areas too:  
TRANSCONT®
- **Universal measuring transducers**  
Multifunctional isolation amplifiers and signal converters, freely configurable:  
TRANSCONT®
- **Limit switches**  
Digital limit switches for simple limit formation for standard signals:  
GWA-250-UO
- **Isolation amplifiers**  
For safe galvanic isolation of standard signals:  
TRANSCONT®



Landshut Wastewater Treatment Plant



© Vattenfall



© Passau Power Plant

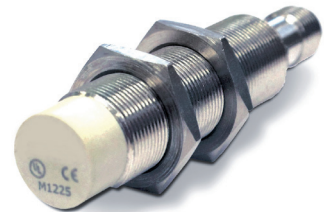




# SENSOR TECHNOLOGY

ACS Control-System – an innovative company for measurement technology and control systems – develops, produces and sells fill level, pressure, temperature and flow sensors, not to mention OEM or custom sensors too.

The addition of system components such as controllers, recorders, counters and sensors means our sales programme is being expanded – and successfully to boot.



## ACS Control-System's technologies Sensor technology:

- **Optoelectronic sensors**  
Light sensors, retroreflective sensors, through-beam sensors, laser light barriers, frame light barriers, object and component scanning, etc.
- **Safety light barriers**  
Light curtains (in accordance with the regulations set down by the Employers' Liability Insurance Association) hanging in front of dangerous machines and equipment where there is a risk of injury
- **Light barriers that are insensitive to dirt**  
Special light barriers, use in very dirty and dusty environments
- **Light conducting cables with amplifier**  
Fibre-optic light barriers for measurements in hard-to-reach places or installation sites with very high temperature and vibration loads
- **Inductive sensors**  
Proximity switches for contactlessly switching metallic objects
- **Capacitive sensors**  
Contactless switches for detecting non-metallic objects too
- **Magnetic field sensors**  
Sensors are addressed with magnets, very large switching ranges





# IOT

ACS Control-System's IoT solutions open up lots of new monitoring and measurement options for a wide range of applications.

Measurement data visualisation, device management and much more besides – at any time and anywhere in the world! The clearly arranged ACS Web Portal allows you to manage all your measuring points centrally.

**ACS's IoT solutions – equipped for the latest mobile communications standards for reliable data acquisition for any measurement task.**



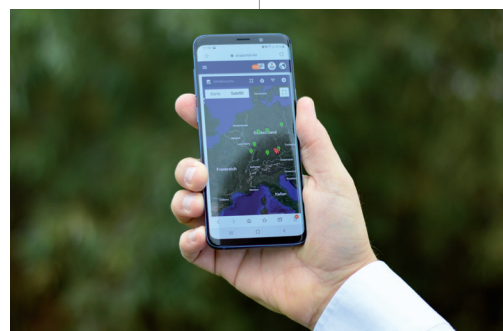
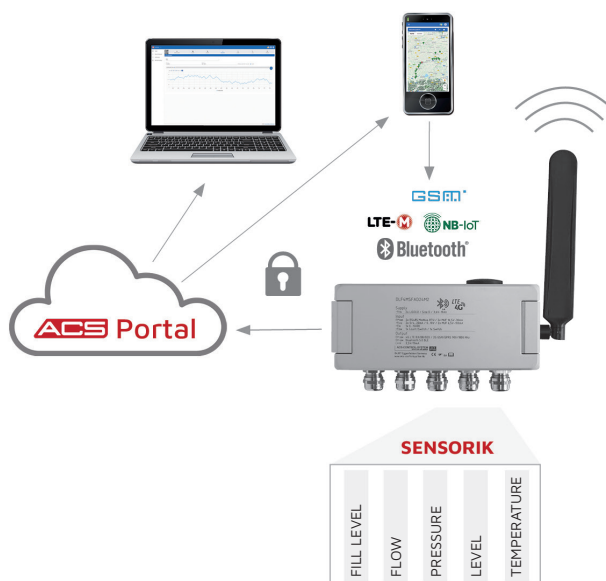
## ACS Control-System's technologies IoT:

### – DLF4 data logger

An independent data logger with remote data transmission for connecting up to 7 analogue or digital sensors

### – HYDROLOG HLF4

Data logger for pipe installation with (rechargeable) battery operation and mobile radio data transmission for connecting up to 5 analogue or digital sensors



# TESTIMON

MUNICIPAL UTILITIES TRIFTERN MUNICIPALITIES NETWORK UNIPER ENBW VATTENFALL



# OUR CUSTOMERS ARE THE MEASURE OF ALL THINGS.





## OUR SALES PARTNERS – SIGNIFICANTLY INVOLVED IN OUR GLOBAL SUCCESS



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