

Level Measurement

Level measurement and level control is important in all industries, from mining through to fine chemicals. Such is the diversity of materials to be measured that no single instrument is capable of reliable operation with all materials.

Green Industry offers a versatile range of contacting and non-contacting instruments for point level and continuous level measurement to ensure that users are able to select the most appropriate instrument for their applications. All our level measurement instruments have been field proven in countless applications through years of experience in many process industries worldwide like – Cement, Power, Iron & Steel, Water & wastewater, Food & Food Processing, Chemical, Pharmaceutical, Fertilizer & many other.

- Radar
- Ultrasonic
- Float / Displacer / Magnetic / Vibration / Electrode

Manufacturers

VEGA

KLAY
INSTRUMENTS

KROHNE

SOR
MEASUREMENT AND CONTROLSIEMENS
Ingenuity for life

WIKAI

Foxboro®
by Schneider ElectricEndress+Hauser 
People for Process Automation SIERRA
EXPERIENCE OUR PASSION FOR FLOW KLINGER
United Kingdom

Level Measurement

Guided Radar level Meter



- Reliable measurement: Unaffected by medium surfaces and tank obstacles or baffles
- Additional measuring safety through End-of-Probe (EoP) evaluation
- Safe measurement also during filling

Radar Level Meter



- Non-contact, maintenance-free measurement
- Unaffected by medium properties like density and conductivity, in bulk solids also unaffected by filling noise and dust
- Freely adjustable measuring range
- For high temperatures up to °450+C/°842+F

Capacitance level Meter



- Proven and tested measuring principle - robust and safe
- Universally adaptable probe
- Reliable operation also in strong build-up formation and viscous media
- Easy commissioning

Servo level Meter



- Unaffected by medium properties like conductivity or dielectric constant
- Custody transfer applications

Ultrasonic Level Meter



- Non-contact, maintenance-free measurement
- Measurement unaffected by media properties, like dc value or density
- Calibration without filling or discharging
- Self-cleaning effect due to vibrating sensor diaphragm

Vibronic point level



- Unaffected by media
- Unaffected by media properties
- Easy installation and ready for use without calibration
- Self-monitoring
- No wear and tear, maintenance-free

Conductive level Meter



- Multipoint detection with one process connection
- Simple instrumentation

Radiometric level



- Non-contact measurement from outside
- For extreme measuring tasks where other principles can not be used anymore
- Source container with manual or pneumatic switching on/off and padlock, cylinder lock or locking bolt for fixing the switching position

Level Measurement

Level Switch for liquids



- Robust and compact
- All stainless steel
- FDA and EHEDG conformity
- Suitable for CIP / SIP cleaning
- Accurate adjustability

Tank Gauging Device



- Automatic calibration
- High level of accuracy
- Less cabling – only 2 wires
- No moving parts – longer lifetime
- Flexible and easy installation
- Explosion proof

Tank Level Alarm



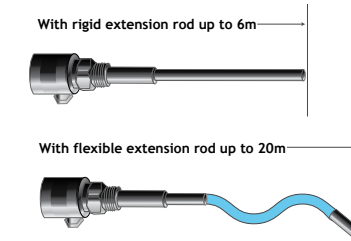
- Works with any type of liquid and liquefied gas
- Easy installation
- No maintenance
- No moving parts
- No electronics inside the tank
- No sensitivity to vapor, moisture and foam
- Automatic self test
- Lengths on request
- Only steel rod inside the tank (electronics and connections outside)

Ultrasonic Tank Switch

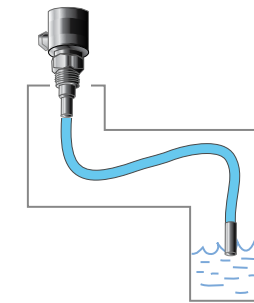


- Any type of liquid
- Only steel rod inside the tank (electronics and connections outside)
- Fully welded construction
- No moving parts
- Extended temperature range
- No maintenance required
- Automatic self test
- No calibration needed
- Explosion proof
- Pre-adjustable alarm points
- No sensitivity to foam
- More than 300 possible variations

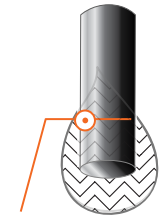
Main advantages of Ultrasonic Level Switch



Wide length range

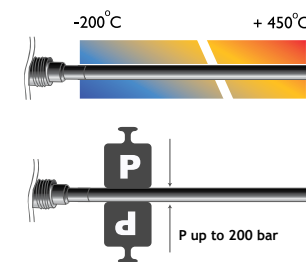


Possibility to bend

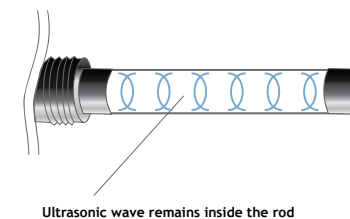


Actuation point is raised to avoid false switching

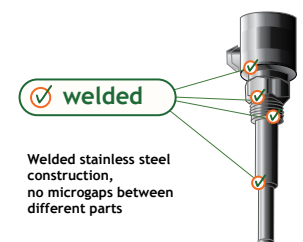
Resistance to sticking



Wide temperature and pressure range

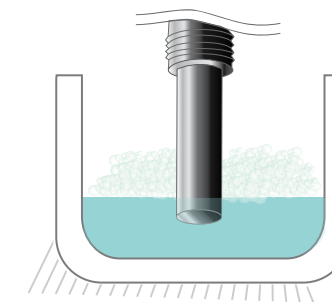


Ultrasonic wave remains inside the rod

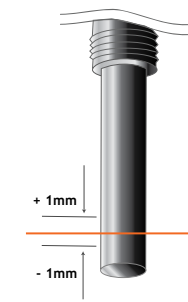


Welded stainless steel construction, no microgaps between different parts

Reliable construction ensures safe application in harsh environments



No sensitivity to foam



High accuracy (repeatability)

Actuation accuracy (repeatability) +/- 1mm

Level Measurement

Electromechanical Level



- Unaffected by medium properties
- Unaffected by dc value
- Proven and reliable measurement

Float Switch Level



- Reliable and cost-effective point level detection in liquids
- Electrical connections to NAMUR for hazardous areas (to Zone 1) or change-over contact (AC/DC) for universal standard application

Magnetic Level Indicator



- Minimal leak points as compared to sight glasses
- No process liquid in contact with indicator glass
- Designed for both gas/liquid and liquid/liquid interface measurements
- Measure both interface and top level with one indicator

Transparent Level gauge



- Direct view of the fluid level
- Suitable for steam application
- No electronic signal, no fault
- Cheaper solution to check the fluid level
- Easy maintenance
- Very long life in service

Paddle Switch



- Measuring principle for simple applications
- No calibration required

Microwave Barrier



- Non-invasive - tanks penetrated by microwaves from outside
- Measuring principle almost unaffected by process conditions
- Mechanical robust solution - maintenance free

