

Ingeniously simple and reliable
level measurement technology



Solutions for
Biogas plants



Versatile solutions for diverse processes

UWT has developed reliable measurement technologies for the measurement tasks in biogas plants that meet diverse demanding conditions.

Rotary paddle switch Rotonivo® RN 3000/6000

RN

Point level measurement and overflow protection in solids

Main features

- Measurement during filling
- Universal voltage electronics
- Adjustable sensitivity
- Fail safe alarm



Rotonivo® RN 3000 / RN 6000 flameproof

Radar Sensor NivoRadar®

NR

Contactless continuous level monitoring through storage membrane foil

Main features

- Measuring range up to 100 m
- 78 GHz & 4° beam
- Integrated lens cleaner
- Quick start wizard



NivoRadar® NR 3000 / aiming flange

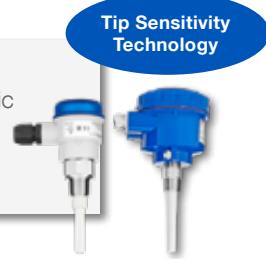
Capacitance Sensor Capanivo® CN 7000/8000

CN

Point level measurement, overflow protection, leakage detection in liquids

Main features

- Use in metallic and non-metallic containers
- Compact design
- With / without media contact



Capanivo® CN 7100 / CN 8000

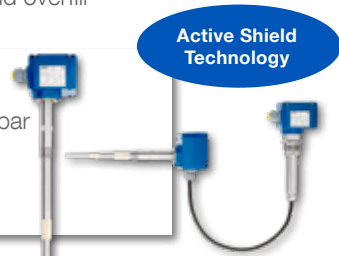
Capacitance RF Sensor RFnivo® RF 3000

RF

Point level measurement and overflow protection in solids

Main features

- Overpressure up to 25 bar
- -40°C to +500°C
- PROTECTION PLUS corrosion protection



RFnivo® RF 3000 / remote

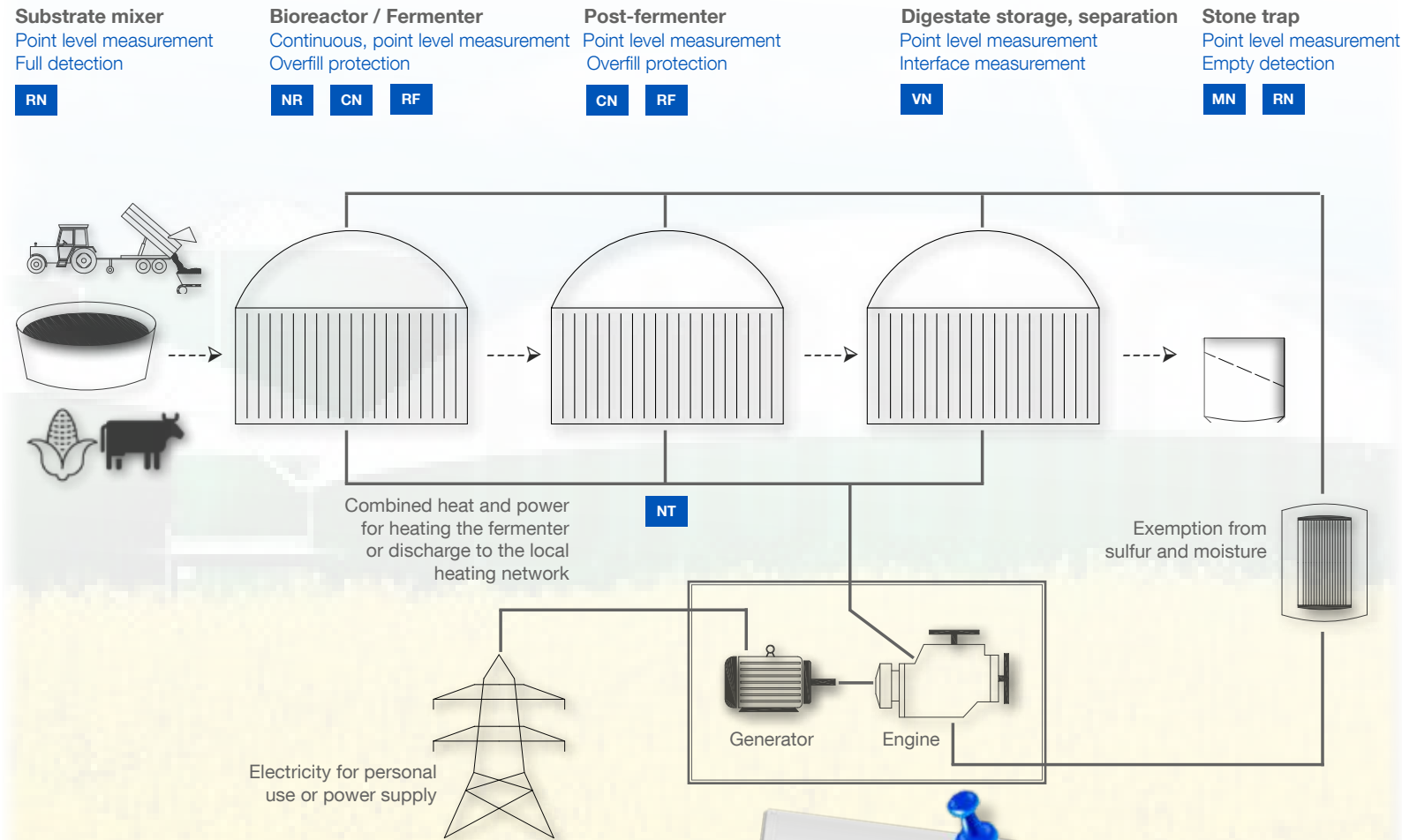
Continuous, point level & interface measurement in processes in biogas plants

In biogas plants the demands on the level sensors are very high as they are usually enriched with **aggressive media** such as sulfur oxides and heavy metals or acids. Level limit devices that are used to prevent overflow or as protection against emptying, as well as continuous level sensors, must have a **robust design** for a **long service life**.

If the quality of the level sensors installed in these processes does not meet the required standards and thus the devices fail, then the **costs** for maintenance and/or replacement of these sensors can be unnecessarily high.

UWT offers a variety of **high quality sensors** for point level detection and continuous level monitoring as well as interface measurement for typical industry applications in biogas plants. The reliable measurement technology is **certified** in accordance with the standard for international approvals for gas and dust explosion hazard areas.

Typical processes in biogas plants with UWT recommended measurement solutions:



We can offer you the right measurement sensor for every process within your plant

- UWT Measurement Technology**
- ✓ Corrosion resistant
 - ✓ Density-independent technology
 - ✓ Variety of boom types
 - ✓ Insensitivity to dust, moisture, adhesion
 - ✓ WHG, ATEX gas and dust, FM, CSA, TR-CU, etc.
 - ✓ Easy installation

Resistant stainless steel probes

Inverse Frequency Shift Technology

Capacitance RF Sensor RFnivo® RF 8000

RF

Point level measurement and overflow protection in liquids

Main features

- High chemical resistance
- Insensitive to adhesion
- Robust design
- Digital version with LCD



RFnivo® RF 8000 / rope extension with flange

Vibrating Fork Vibranivo® VN 1000/5000

VN

Interface measurement for precise detection of solids in liquid

Main features

- Adjustable sensitivity
- Robust design
- Anti-adhesion high surface quality



Vibranivo® VN 1000 / VN 5000

Vibrating Rod Mononivo® MN 4000

MN

Point level measurement and emptying protection in solids

Main features

- Coarse-grained granules
- 1" connection thread
- Adjustable 4 level sensitivity
- Pressure-resistant up to 16 bar



Mononivo® MN 4000 / tube extension

Visualization & Monitoring NivoTec® system solutions

NT

Web server-based visualization solution for effective silo management

Main features

- Complete systems for level and trend display
- Data storage
- Continuous remote fill-level query



NivoTec® NT 4600 touch panel

Experts in innovative measuring technology since 1977.
We design reliable **solutions** and long-lasting products,
tailor-made according to the **needs** of our customers.

UWT - Your global partner for the future



UWT GmbH - Level Control
Westendstr. 5
87488 Betzigau
Germany

Tel.: +49 (0) 831 57 123 0
Fax: +49 (0) 831 57 123 10

www.uwtgroup.com
info@uwtgroup.com