

The contactless measurement of liquid level in tanks using ultrasonic technology does not require mobile parts any more to be gotten dirty or damaged. Due to this fact they're suitable especially for the measuring inside a waste water tank.

#### SYSTEM CAUSED LIMITATIONS:

The „off“ zone 5 cm directly underneath the sensor cannot be measured and the display shows possibly wrong values. The distance ring UTS serves as compensation for this zone.

While a boat is under way, the heeling and swell makes a measurement impossible. By using a focus tube UFT the measurement will be improved. It protects the sensor from dirt and stain and improves the measurement if there's a froth on the liquid surface. Another positive effect is the acoustic decoupling at metal tanks, where a feedback could disturb the measurement.

#### SUMMARY:

- we recommend ultrasonic sensors only for waste water tanks, especially in connection with a focus tube UFT.
- for fuel and water tanks they're not really recommended because of the off zone (5 cm underneath the sensor) if the tank is full or nearly full.
- While the boat / vehicle is under way you don't get a reliable measurement.



Distance ring for balancing of the off zone

■ UTV 20	200 mm	7 0219 3520
■ UTV 25	250 mm	7 0219 3525
■ UTV 30	300 mm	7 0219 3530
■ UTV 35	350 mm	7 0219 3535
■ UTV 40	400 mm	7 0219 3540
■ UTV 45	450 mm	7 0219 3545
■ UTV 50	500 mm	7 0219 3550
■ UTV 60	600 mm	7 0219 3560
■ UTV 70	700 mm	7 0219 3570
■ UTV 80	800 mm	7 0219 3580

#### Focus tube

■ UFT 40	400 mm	7 0219 9400
■ UFT 80	800 mm	7 0219 9800

Incl. in delivery is a gasket  
Built-on height 6 mm.

#### Distance ring

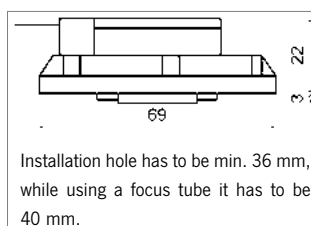
■ UTS 25	25 mm	7 0219 9025
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Incl. in delivery are a gasket and 5 screws



Waste UTV No.: 2 0778 2041

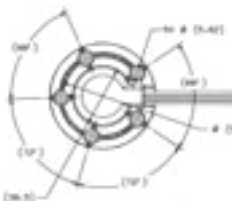
Analogue gauge matching the ultrasonic sensor UTV.  
Operation at 12 V and 24 V DC.



Installation hole has to be min. 36 mm, while using a focus tube it has to be 40 mm.

#### Technical data UTV

Input voltage	10 – 30 V
Consumption	50 mA
Output signal	0,5 V - 2,5 V
Switch-on time	5 s (1. measurement)
Averaging time	50 s
Temperature range	-40°C to +85°C



■ TRS 130 Order-No.: 6 6011 7102

Tank sensor for waste water tank with indication of 3/4 level of the tank. Full indication on 80 mm before reaching the upper level. Matching for tank depths from 200 to 400 mm. Sensor length is 120 mm. Delivery with flange & gasket.



■ FAF -12V Order-No.: 0 2801 1020  
■ FAF -24V Order-No.: 0 2802 1020

Monitor panel for waste water tanks with optical and acoustical alarm. The acoustic alarm is acknowledgeable by a push button. Suitable for sensors TRS 130 and RSW / DSW.

#### Dimensions

L 105 x W 52,5 x D 50 mm



■ RSW

Order-No.: 0 8930 0008

Float lever for installation on the side of tanks for sensing of the level. Depending on the installation position the switch opens or closes if the inside level rises or falls. Housing -material Polyamid black suitable for oil or diesel. Max. switching current: 0,5 A. Installation from inside to outside.

■ DSW

Order-No.: 0 8930 0019

Same function as float lever RSW. The DSW can be installed from outside without installing a counter nut from inside. The installation is easy, because the DSW has a gasket ring which can be tightened from outside. Mounting hole: ø 22 - 24 mm. Gasket 12 mm wide for wall thickness of max. 5 mm. Only able to take small filling pressure. Max. switching current: 0,5 A. Installation from outside!