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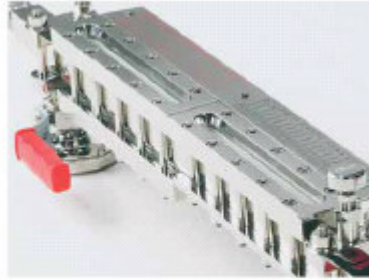
## ***One System – Multiple Options: KSR Bypass Level Measurement***

*Visual Level Indicator,  
Guided Microwave KSR-GT,  
Resistance Level Transmitter,  
Magnetostrictive Transmitter*





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#### MEASURING PRINCIPLE

High frequency microwave radar pulses are coupled on a cable or rod and guided along the probe (TDK). The pulses are reflected by the product surface and received by the processing electronics as level echoes. A microprocessor analyses these measured echoes and converts them into level information using the ECHOFIX software. With this measuring principle, complex adjustment of the probe to the medium is no longer necessary. The instruments are preset to the probe length ordered.

#### FEATURES

Guided radar microwaves are virtually unaffected by all process conditions. Even process conditions such as high dust or very steamy atmospheres do not influence the accuracy of the measurement.

The rod versions can be shortened and thus be adapted on-site to individual conditions. Product or density fluctuations, or changes in the dielectric constant do not influence the accuracy.

Build-up on the KSR GT (Guided wave radar Transmitter) is no problem at all! Strong build-up on the probe or the vessel wall does not influence the measurement result.

All these characteristics result in high accuracy, excellent repeatability and easy commissioning without the need to fill the vessel. Electronics are available in 2- or 4-wire design with replaceable and adjustable probes.

KSR GT can be used in all types of industries: chemical and petrochemical, shipbuilding, On/Offshore, food and pharmaceutical.



KSR-KUEBLER GT:  
exchangeable display  
and configuration  
module, PLICSSOM

#### Redundant Level Measurement

Up to three independent measurement principles in each system facilitate redundant measurement values.

- Visual indication
- Guided microwave KSR GT
- Resistance transmitter
- Magnetostrictive transmitter

#### The Options

Single Bypass System  
with KSR GT 655 / 666 Coax Version

Double Bypass System  
with KSR GT 611 / 666 Rod Version

Single Chamber System  
with KSR GT 611 / 666 Rod Version

Glass gauge with KSR FX 611

These options cover a wide range of applications to suit individual specifications.

#### General Data

Signal processing ECHOFIX<sup>®</sup> for echo analysis with Fuzzy-Logic

Display and adjustment: Module PLICSSOM / PC with PACTware or HART terminal

Measurement accuracy: Rod version +/- 5mm  
Coax version +/- 5mm

Dielectric constant: Rod version 1,7  
Coax version 1,4

Measuring range: up to 6 m

Process conditions: Temperature -100 ... 400°C  
Pressure -1 ... 160 bar

Material wetted parts: 316L (1.4435),  
Hastelloy C22 (2.4602)

Approvals: ATEX II 1G, 1/2G, 2G EEx ia IIC T6  
ATEX II 1/2G, 2G EEx d ia IIC T6  
ATEX II 1/2D IP6X T  
WHG  
Shipbuilding



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#### Technical Data

##### KSR GT 611 with red electrode



Application:  
Liquids

Measuring range:  
0,15 ... 4 m ( 0,5 ... 13 ft)

Process fitting:  
Thread, flange

Material:  
1.4435 (316L) and PCTFE,  
Hastelloy C22 (2.4602)

Process temperature:  
-40 ... +150°C (-40 ... 302°F)

Process pressure:  
-1 ... 40 bar  
(-100 ... 4000 kPa/  
-14,5 ... 580 psi)

Signaloutput:  
4 ... 20 mA/HART in Two-  
and Four-Wire technology,  
Profibus PA, Foundation  
Fieldbus

##### KSR GT 655 with recess electrode



Application:  
Liquids

Measuring range:  
0,05 ... 6 m ( 0,16 ... 20 ft)

Process fitting:  
Thread, flange

Material:  
1.4435 (316L) and PTFE  
(TFM 4105), Hastelloy C22  
(2.4602) and PTFE (TFM  
4105)

Process temperature:  
-40 ... +150°C (-40 ... 302°F)

Process pressure:  
-1 ... 40 bar  
(-100 ... 4000 kPa/  
-14,5 ... 580 psi)

Signaloutput:  
4 ... 20 mA/HART in Two-  
and Four-Wire technology,  
Profibus PA, Foundation  
Fieldbus

##### KSR GT 666 with red electrode



Application:  
Liquids

Measuring range:  
0,15 ... 4 m ( 0,5 ... 13 ft)

Process fitting:  
Thread, flange

Material:  
1.4435 (316L) and PEEK,  
Hastelloy C22 (2.4602)

Process temperature:  
-100 ... +400°C (-148 ... 752°F)

Process pressure:  
-1 ... 160 bar  
(-100 ... 16000 kPa)

Signaloutput:  
4 ... 20 mA/HART in Two-  
and Four-Wire technology,  
Profibus PA, Foundation  
Fieldbus

##### KSR GT 666 with recess electrode



Application:  
Liquids

Measuring range:  
0,05 ... 6 m ( 0,16 ... 20 ft)

Process fitting:  
Thread, flange

Material:  
1.4435 (316L) and PEEK,  
Hastelloy C22 (2.4602) and  
PTFE (TFM 4105)

Process temperature:  
-100 ... +400°C (-148 ... 752°F)

Process pressure:  
-1 ... 160 bar  
(-100 ... 16000 kPa)

Signaloutput:  
4 ... 20 mA/HART in Two-  
and Four-Wire technology,  
Profibus PA, Foundation  
Fieldbus



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