



Guided Microwave

Overview	38
VEGAFLEX series 60	40



VEGAFLEX

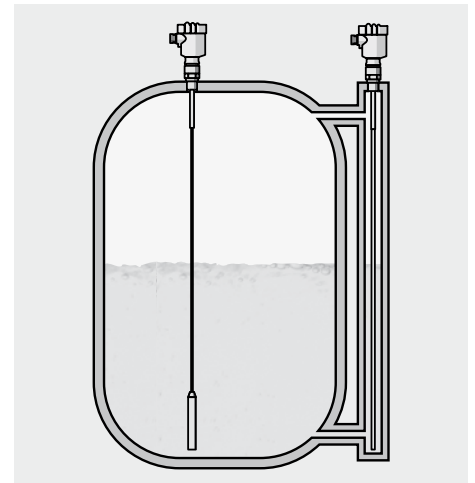
Universal sensors for bulk solids and liquids

Measuring principle

High frequency microwave pulses are coupled on a cable or rod and guided along the probe. The pulse is reflected by the product surface. The time from emission to reception of the signals is proportional to the level in the vessel. An adjustment with product is not necessary. All instruments are preset to the ordered probe length. The shortenable cable and rod versions can be adapted to the individual conditions on site.

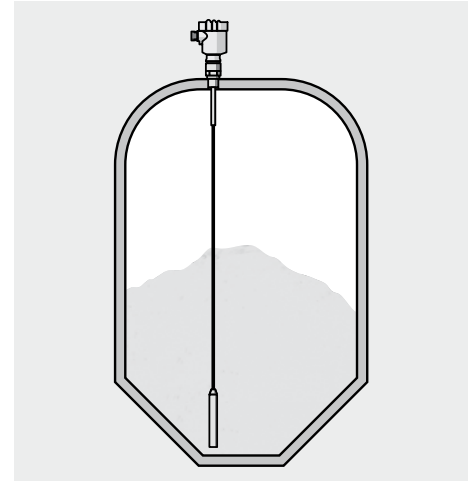
Applications in liquids

Density fluctuations, steam generation or strong pressure and temperature fluctuations do not influence the measuring result. Also buildup on the probe or the vessel wall do not influence the measurement. An ideal application is level measurement in a bypass tube where even products with dielectric values below 1.6 can be measured reliably. Also connection tubes – bypass tubes have no influence.



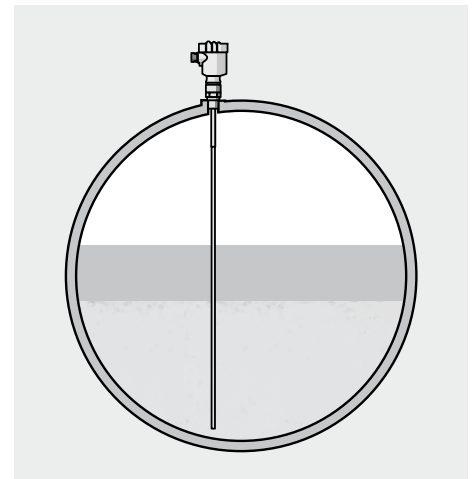
Applications in bulk solids

Typical problems in bulk solids such as e.g. dust and noise generation or condensation do not influence the reliability. Also the shape of the material cone or the product properties, e.g. the change from dry to wet sand do not influence the measuring result. Since the instruments are already preadjusted, setup is limited to connection of the sensor.



Interface measurement in liquids

The measuring principle was developed for detection of the interface. Typical applications are measurements of oil and solvents on water. The microwave pulse is reflected a second time on an interface with different dielectric value. This allows the detection of a second level. The advantage against displacers or floats is that the measuring principle is independent of density and does not use any moving parts. This ensures maintenance-free operation. Through the digital communication interfaces or connection of a VEGAMET 625, the output of both levels is possible.



Overview



VEGAFLEX 61

Application	Liquids, light-weight bulk solids
Measuring range	Cable: up to 32 m Rod: up to 4 m
Process fitting	from thread G $\frac{3}{4}$ A, flange
Process temperature	-40 ... +150 °C
Process pressure	-1 ... +40 bar (-100 ... +4000 kPa)
Accuracy	+/- 3 mm



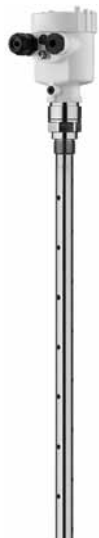
VEGAFLEX 62

Application	Liquids, heavy-weight bulk solids
Measuring range	Cable: up to 60 m Rod: up to 6 m
Process fitting	from thread G1 $\frac{1}{2}$ A, flange
Process temperature	-40 ... +150 °C
Process pressure	-1 ... +40 bar (-100 ... +4000 kPa)
Accuracy	+/- 3 mm



VEGAFLEX 63

Application	Liquids
Measuring range	Cable: up to 32 m Rod: up to 4 m
Process fitting	Flansch from DN 50 Tri-Clamp from 1"
Process temperature	-40 ... +150 °C
Process pressure	-0.5 ... +16 bar (-50 ... +1600 kPa)
Accuracy	+/- 3 mm



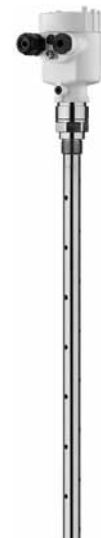
VEGAFLEX 65

Application	Liquids
Measuring range	up to 6 m
Process fitting	from thread G $\frac{3}{4}$ A, flange
Process temperature	-40 ... +150 °C
Process pressure	-1 ... +40 bar (-100 ... +4000 kPa)
Accuracy	+/- 2 mm



VEGAFLEX 66

Application	Liquids, light-weight bulk solids
Measuring range	Cable: up to 32 m Rod, coax: up to 6 m
Process fitting	from thread G $\frac{3}{4}$ A, flange
Process temperature	-200 ... +400 °C
Process pressure	-1 ... +400 bar (-100 ... +40000 kPa)
Accuracy	from +/- 3 mm



VEGAFLEX 67

Application	Interface measurement
Measuring range	Cable: up to 32 m Rod, coax: up to 6 m
Process fitting	from thread G $\frac{3}{4}$ A, flange
Process temperature	-200 ... +400 °C
Process pressure	-1 ... +400 bar (-100 ... +40000 kPa)
Accuracy	+/- 10 mm



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.