0802-0005-01MSN17042210

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Specification sheet

ROHEVEL-GRT2202

4 ... 20 mA/HART - 2wire, rod and cable probe

Radar sensor for continuous level and interface measurement of bulk solid



Application area

With ROHEVEL-GRT2202 you can measure all kinds of light-weight and heavy bulk solids essentially maintenance free. The sensor delivers precise and reliable measured values even in applications with strong steam generation, condensation and buildup. ROHEVEL-GRT2202 is a truly cost-effective and secure sensor for your measuring task.

Feature and benefit

Twin chips

With two MCU, ROHEVEL-GRT achieves higher processing ability.

Multi-Track

Due to new Multi-Track wave tracking algorithm, ROHEV-EL-GRT get highest reliability.

Waves Memo

Wave management concept. To help understand abnormal output, ROHEVEL-GRT storages wave automatically.

Function

The ROHEVEL-GRT guided radar transmitter is designed for continuous level measuring of conductive or nonconductive liquids and solids. The ROHEVEL-GRT is a "downward-looking" measuring system that functions according to the TDR principle (Time Domain Reflectometry). High frequency microwave impulses are guided along a steel cable or rod. When they reach the product surface, the microwave pulses are reflected and received by the processing electronics. Level distance is directly proportional to the flight time of the pulse.

Technical data

Measuring range

0 ~ 30 m - Cable probe - Rod probe $0 \sim 6 \text{ m}$ - Coax probe 0~3 m Sample frequency 16Hz Response time <2s Resolution 1_{mm} Deviation +2mm ±1.5mm Repeatability

Frequency $100 \text{MHz} \sim 1.8 \text{GHz}$ Ambient temperature $-40 \, \text{C} \sim 70 \, \text{C}$ Process temperature $-40 \, \text{C} \sim 200 \, \text{C}$

Process pressure -1.0 kgf/cm² ~ 40 kgf/cm²

Protect level IP67

Material

The wetted parts of the instrument are made of 316L and PTFE. The process seal is made of FKM.

Housing versions

The housings are available as double chamber version in plastic, stainless steel or aluminium. They are available with protection ratings up to IP 67 (1 bar).



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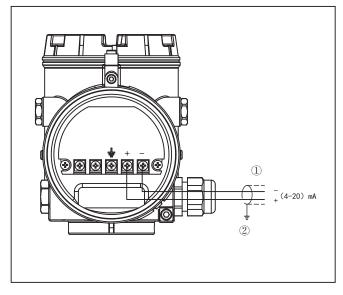
Electronic versions

The instruments are available in different electronics versions. 4 ... 20 mA/HART in two and four-wire version with 24VDC and four-wire with 220VAC.

Operation

The adjustment of the instrument is carried out via the Lcd display, Tank side display and Tank side hub.

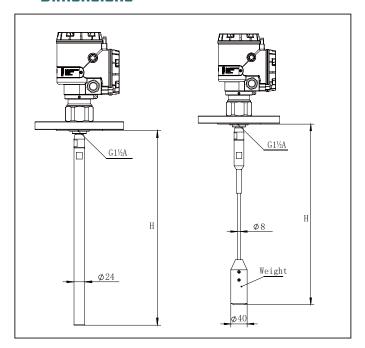
Electrical connection



Electronics and terminal compartment, double chamber housing

- 1 Voltage supply/Signal output
- 2 Ground terminal for connection of the cable screen

Dimensions



Dimensions ROHEVEL-GRT2202

- 1 Single rob probe
- 2 Single cable probe

How to order

ROHEVELGRT2202-A2A3XXXXAMF-3FB3AX-A-01B

Application code
Approvals information
Flange fitting option
Radar configuration
Versions

Approval

- A None
- B Ex ia IIC T6 Ga
- C Ex d ia [ia Ga] IIC T6 Gb
 D ATEX II 1/2G Ex ia IIC T6
 E ATEX II 1/2G Ex d (ia) IIC T6
- Z Special order

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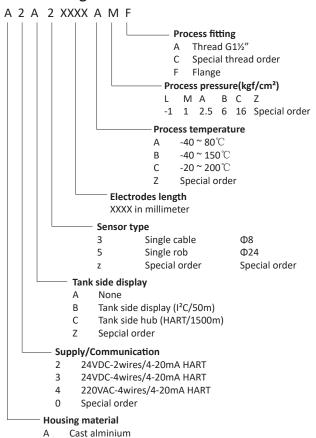


Radar configuration

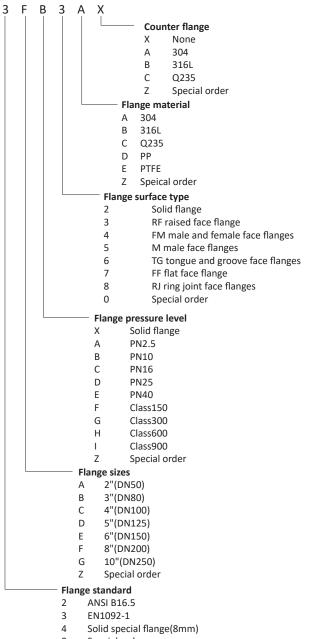
В

Stainless steel

Special order



Flange fitting option



Special order