# 0802-0005-01MSN17042110

# ROCKHILL



#### **Specification sheet**

# ROHEVEL-GRT2201

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

Radar sensor for continuous level and interface measurement of liquids



# **Application area**

With ROHEVEL-GRT2201 you can measure all kinds of liquids essentially maintenance free. The sensor delivers precise and reliable measured values even in applications with steam, buildup, foam generation or condensation. It is a truly cost-effective level and interface 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<sub>mm</sub> Deviation +2mm Repeatability ±1.5mm

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/cm<sup>2</sup> ~ 40 kgf/cm<sup>2</sup>

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).



# **ROCKHILL**

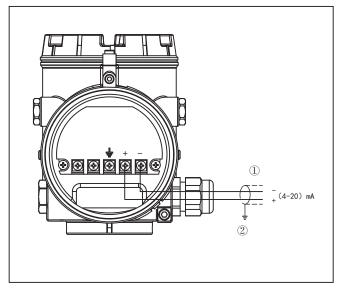
#### **Electronic versions**

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.

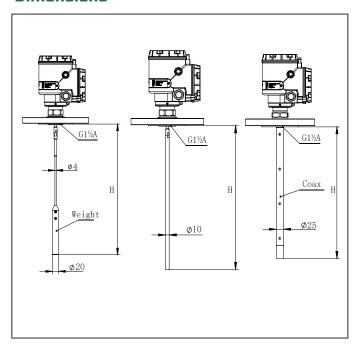
#### **Electrical connection**



Electronics and terminal compartment, double chamber housing

- 1 Voltage supply/Signal output
- ${\bf 2}$  Ground terminal for connection of the cable screen

#### **Dimensions**



Dimensions ROHEVEL-GRT2201

- 1 Single cable probe version
- 2 Single rob probe version
- 3 Coax probe version

#### How to order

#### **ROHEVEL-**

GRT2201-A2AA2XXXX1XAMF-3FB3AX-A-01B

Application code
Approvals information
Flange fitting option
Radar configuration

#### Approval

- A None
- B Ex ia IIC T6 Ga

-Versions

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

# ROCKHILL

В

Stainless steel Special order



