# 0802-0100-01MSN18041210

## ROCKHILL



### **Specification sheet**

## ROHEVEL-PRT3202

4 ... 20 mA/HART - 2wire

Radar sensor for continuous level measurement of liquids



### **Application area**

The ROHEVEL-PRT3202 is a sensor for continuous level measurement of liquids under difficult process conditions. It is suitable for storage tanks, process vessels or standpipes. It can be used universally by changing different versions of antenna.

### Feature and benefit

#### Maintenance-free

Maintenance-free operation thanks to non-contact measuring principle

### Availability

High plant availability, because wear and maintenance free

### Reliability

Reliable measurement independent of process conditions

### **Function**

Measuring system operates based on the time-of-flight method (ToF). It measures the distance from the reference point (process connection) to the product surface. Radar impulses are emitted by an antenna, reflected off the product surface and received again by the radar system. The time from emission to reception of the signals is proportional to the level in the vessels. A special time stretching procedure allows reliable and precise measurement of the extremely short signal running times.

### Technical data

Measuring range 0 ~ 70m Sample frequency 54Hz Response time <2s Resolution 1mm Deviation ±10mm Repeatability ±5mm 6.3GHz Frequency -40 °C ~ 70 °C Ambient temeprature -40°C ~350°C Process temperature

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. 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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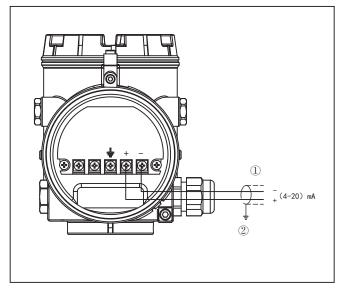
### **Electronic versions**

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.

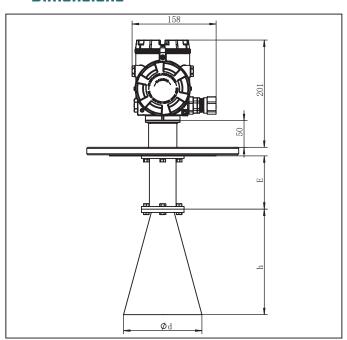
### **Electrical connection**



Electronics and terminal compartment, double chamber housing

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

### Dimensions



Dimensions ROHEVEL-PRT3202 Version with horn antenna

## How to order

ROHEVEL-PRT3202-A2A2XXAMF-3FB3AX-A-01B ─Application code -Approvals information Flange fitting option -Radar configuration Versions

#### **Approval**

- None
- В Ex ia IIC T6 Ga
- Ex d ia [ia Ga] IIC T6 Gb C
- D ATEX II 1/2G Ex ia IIC T6
- ATEX II 1/2G Ex d (ia) IIC T6 Ε

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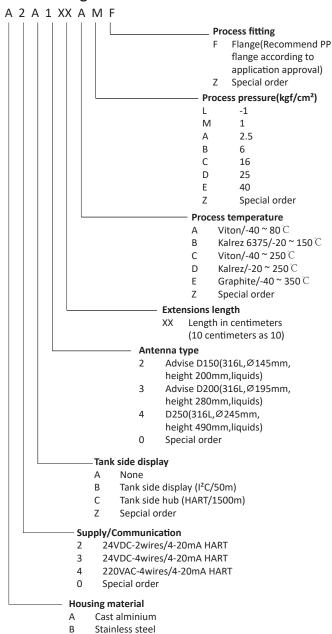
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#### **Radar configuration**

Z

Special order



### Flange fitting option

