## 0802-0100-01MSN18041410

## ROCKHILL



#### **Specification sheet**

## ROHEVEL-PRT3205

4 ... 20 mA/HART - 2wire

Radar sensor for continuous level measurement of liquids



## **Application area**

The ROHEVEL-PRT3205 is a radar sensor for continuous level measurement of liquids. The small process fittings offer particular advantages in small tanks or tight mounting spaces. The very good signal focusing ensures the use in vessels with many installations such as stirrers and heating spirals.

## 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 ~ 20m Sample frequency 54Hz Response time <2s Resolution 1mm Deviation ±3mm Repeatability ±1.5mm 26GHz Frequency -40°C ~ 70°C Ambient temperature -40 °C ~ 150 °C Process temperature

Process pressure -1.0 kgf/cm<sup>2</sup> ~ 3 kgf/cm<sup>2</sup>

Protect level IP67

## **Material**

The material of wetted parts has PTFE version and PVDF version. 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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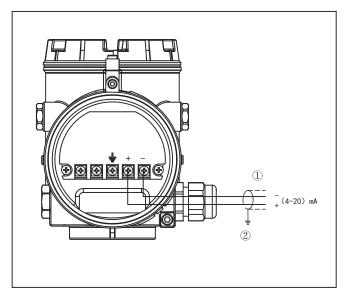
## **Electronic versions**

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.

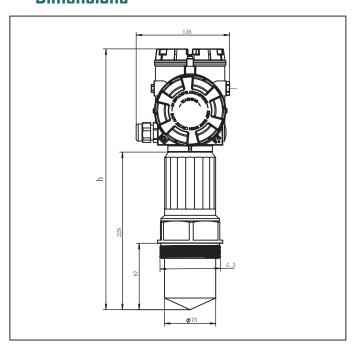
## **Electrical connection**



Electronics and terminal compartment, double chamber housing

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

## **Dimensions**



Dimensions ROHEVEL-PRT3205 Version with integrated antenna

## How to order

ROHEVEL-PRT3205-A2A2AMF-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

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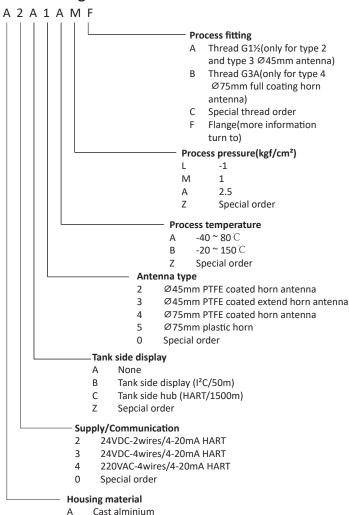
#### **Radar configuration**

В

7

Stainless steel

Special order



#### Flange fitting option

