0802-0100-01MSN18041610

ROCKHILL



Specification sheet

ROHEVEL-PRT3207

4 ... 20 mA/HART - 2wire

Radar sensor for continuous level measurement of liquids



Application area

The ROHEVEL-PRT3207 is a radar sensor for continuous level measurement of aggressive liquids. It is suitable for applications in storage tanks, process vessels, dosing vessels and reactors.

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/cm² ~ 16 kgf/cm²

Protect level IP67

Material

The material of wetted parts 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).

0802-0100-01MSN18041610



ROCKHILL

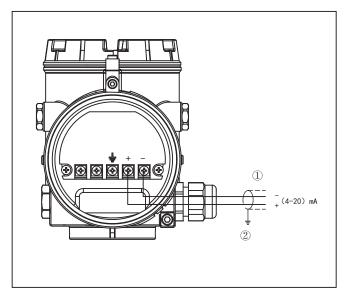
Electronic versions

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.

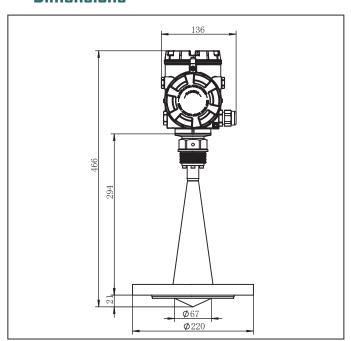
Electrical connection



Electronics and terminal compartment, double chamber housing

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

Dimensions



Dimensions ROHEVEL-PRT3207 Version with horn antenna

How to order

ROHEVEL-PRT3207-A2A2AMF-3FB3AX-A-01B

Application code

Approvals information

Flange fitting option

Radar configuration

Versions

Approval

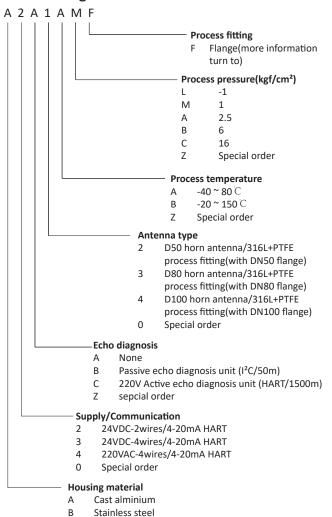
- A None
- B Ex ia IIC T6 Ga
- C Ex d ia [ia Ga] IIC T6 Gb
- D ATEX II 1/2G Ex ia IIC T6
- E ATEX II 1/2G Ex d (ia) IIC T6

0802-0100-01MSN18041610

ROCKHILL



Radar configuration



Stainless steel

Special order

Flange fitting option

