

RADAR LEVEL METER OMEGAPULS



Delivery scope



- 1 x Radar transmitter
- 1 x locking part
- 1 x Bracket mounting

Features

- Low cost radar level meter for application
- The level is able to measure up to 15 meters
- Strong anti-interference ability, high measurement accuracy and high reliability
- Multiple output circuit interfaces are optional
- Not affected by harsh environments such as light, rain, snow, dust, water mist, etc.
- Small beam angle and concentrated energy
- Low radar transmission power, no harm to human body and environment

Technical Data

Application : Liquid and solid powder measure

Dielectric constant : ≥ 3

Modulation waveform : Frequency-Modulated Continuous Wave (FMCW)

Measuring Range : 0...8 m, 0...15 m

Accuracy : ± 5 mm

Resolution : 1 mm

Repeatability : ± 2 mm

Response time : > 500 ms

Beam angle : 3°

Blind area : 150 mm

Frequency Range : 79...81GHz

Process temperature : $-40...+85^\circ\text{C}$

Process pressure : $-0.1...0.3$ Mpa ($-1...3$ bar)

Process connection : Thread G 1 1/2

Material : Polycarbonate

Signal output : 4...20 mA (2-wire)

Communication : RS485 (Modbus), HART

Dimension : $\varnothing 70 \times 90.3$ mm

Cable length : 900 mm

Power supply : 9...36 Vdc

Power consumption : ≤ 1.9 W

Protection class : IP67

Application



Sewage treatment



Paper and Pulp Industry



Water treatment



Boiler Engineering

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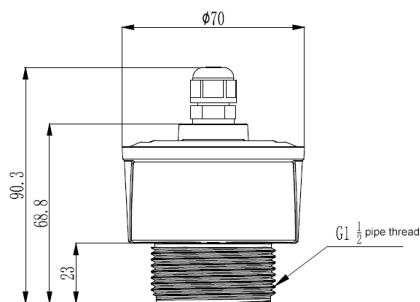
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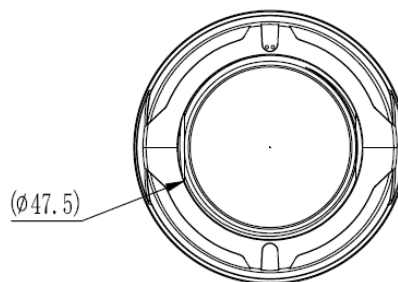
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Drawing and dimension

unit : millimeter



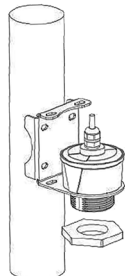
Side view



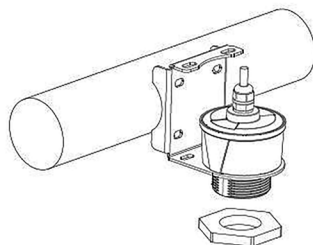
Bottom view

Installation guide

The radar can be installed according to the actual on-site environment. It can be securely fastened to the mounting bracket using expansion screws or hoops (hoops need to be prepared by the user). Please refer to the figure below for details.

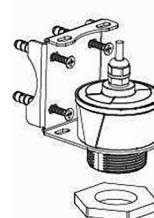


Install with vertical pole

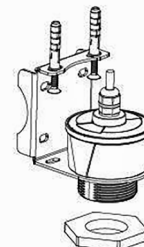


Install with beam

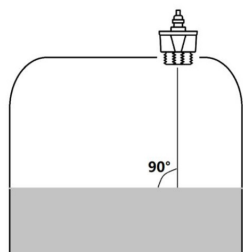
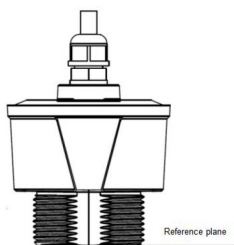
Screw backward
bracket mounting



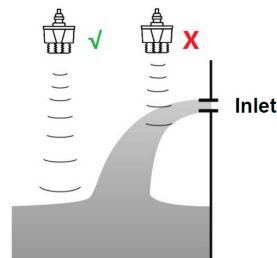
Screw above
bracket mounting



• Installed position



The radar level meter should be placed vertically above the surface of the liquid medium in order to obtain optimal measurement results in a liquid environment.



To ensure detection of a smooth and flowing surface of the medium, please avoid installing the radar directly above the inlet of the flowing medium

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RADAR LEVEL METER OMEGAPULS

Ordering code

Series : OMEGAPULS-x-x	
X : Measuring range	
8 : 0...8 meters	
15 : 0...15 meters	
	X : Output signal
	A : 4-20 mA + HART
	R : RS485

Example : OMEGAPULS-15-A

Radar transmitter, measuring range 0..15 meters, with 4-20mA + HART output

Accessories (options)

These products are accessories for radar transmitter and that are compatible.

• T904: Display indicator / controller



- Universal analog output
- High/Low scale function
- High measurement accuracy
- The average processing is available for filtering noise
- It can be set high and low alarm points

• AR207 : Data logger



- Up to universal 8 input signals
- 4 GB internal data memory, advanced data logging
- LCD TFT, 320x240 points - QVGA, 3.5", background brightness adjustment
- Ethernet port, Modbus TCP Client/Server
- RS-485 port, Modbus RTU Master/Slave

• IoT-GPRS/4G : IoT module for 4G version



Feature

- 4G are available
- The IoT module can receive a signal from Instrument for monitoring in real-time, support adjustment
- The IoT module can receive 4 analog and 1 digital signal from industry instrument.
- Application can be widely used in industrial automatic control, base station/computer room monitoring, environmental monitoring, water conservancy project, power industries, agriculture, etc.

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