



RD-1000

High Accuracy Millimeter Wave Radar Level Sensor

Applications

- Water and Wastewater
- Stormwater
- Oil & Gas
- Chemical Tank
- Food and Beverage

Features

- High Precision
- Robust & Modular
- No-contact measurement adopted, without cleaning difficulty and maintenance
- Withstand corrosion and condensation
- Easy Install



Description

The AccuDose RD-1000 radar level sensor is a high-precision, ultra-low power, millimeter-wave radar level sensor offered by AccuDose. It's proprietary radar ranging algorithm and allows for the utmost accuracy. It is highly sensitive, easy to install, and extremally reliable.

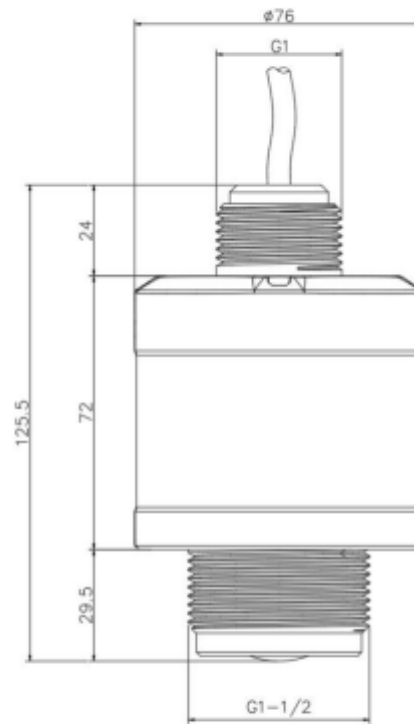
It uses non-contact technology. eliminating the need for physical contact with the measured substance, preventing contamination, and minimizing maintenance requirements.

The RD-1000 can be used in various industries and applications, including liquids, distance, and even in harsh environments such as wet wells, chemical applications, oil & gas, and food processing. Additionally, it can easily integrate with control and automation systems allowing for seamless integration and into industrial processes and enabling remote monitoring.

Specifications

Parameter	HR2000			
Working pressure	-1~3bar			
Measuring range	0.2-10m			
Measurement accuracy	±2mm			
FOV angle	Horizontal 15°, Pitch 22°			
Antenna size	13×11mm			
Center frequency	80GHz			
Communication rate	Default 9600bit/s			
Scanning frequency	79-81GHz			
Signal output	0-5V+RS485 MODBUS RTU; 0-10V+RS485 MODBUS RTU; 4-20mA+RS485 MODBUS RTU optional			
Power Supply	12-30Vdc(Typical type) 3.3-4.2Vdc(Low voltage & low power consumption type)			
Working temperature	-40~85°C			
Power consumption	Regular power supply		Low voltage & low power consumption	
	Min.	Max.	Min.	Max.
	0.36W (12V*0.03A)	0.9W (30V*0.03A)	0.09W (3.3V*0.03A)	0.12W (4.2V*0.03A)
Product Size	Ø125.5×76mm			
Protection class	IP67/IP68 optional			
Material of wet parts	Polycarbonate + Fiberglass(Typical type) PVDF(Anti-corrosion type)			
Material of housing	Polycarbonate + Fiberglass			

Dimensions and Drawing



Unit: mm

Wiring

Pin No.	Definition	Wire Color
1	VCC	Red
2	GND	Black
3	RS-A	Green
4	RS-B	Blue
5	0-10V/0-5V/4-20mA	Yellow