



FlowRLT-900 Model

FlowRLT-630 Model

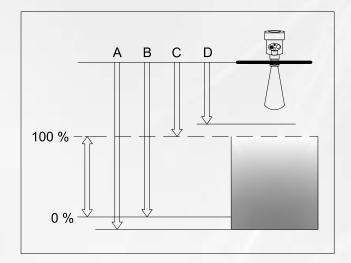
FlowRLT-720 Model

Product Description

Radar water Level Transmitter is high-frequency level measuring instruments with the maximum measuring distance up to 70 meters. The antenna is further optimized, and the new-type microprocessor can perform higher rate of signal analysis and processing, making the instrument available for complex measurement conditions, such as reactors, solid silos.

Radar Level Transmitter Principle :

Radar level antenna emits narrow microwave pulses that transmitted down by the antenna. The microwave comes into contact with the measured medium surface then reflected back and receiving by the antenna system. The signal is transmitted to electronic circuit and partly convert to level signals (as the microwave featured with high propagation speed, it's almost instantaneous for the electromagnetic waves to reach the target and return to the receiver)



- A. Measuring range setting
- B. Low position adjustment
- C. High position adjustment
- D. Blind spot range

Measurement datum: thread bottom and flange sealingsurface

Note: When applying the radar water sensor, make sure that the highest material level cannot reach the measurement blind spot (the territory that indicate as D)

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Features :

- Small antenna size, easy to install; non-contact radar, no wear, no pollution.
- Almost free from corrosion, foam impact; hardly affected by the change of the temperature, pressure and water vapor in the atmosphere.
- · Severe dust environment is not likely to affect the work of the high-frequency level meter.
- Shorter wavelength can achieve better reflection for the inclined solid surface.
- The small field angle and energy concentration, enhanced echo capabilities, and beneficial to avoid interference.
- Minimized measuring blind spot can gain better result of small tank measurement.
- High SNR, even in the case of fluctuations can result in better performance.
- High frequency, the best choice to measure solids and low dielectric media.

Technical Details :

Model	FlowRLT - 630
Frequency	78GHz-80GHz
Max Range	10m, 15m, 20m, 30m, 50m
Accuracy	± 2mm
Signal Output	4~20mA / HART
Communication	RS485/Modbus
Power Supply	DC 24V (22V~30V)
Process Temperature	-20°C ~ +70°C
Process Pressure	Normal atmospheric pressure
Ambient Humidity	(0%~95%) RH
Beam Angle	3°
Protection Classic	IP65/IP67
Display	Bluetooth App, WeChat Mini Program
Process Connection	Threaded connection G1,G3/2 M76X2
Weight-Man Unit	0.5 kg
Main Unit Size	Diameter 76 mm x Height 107 mm
Housing	PP/ABS

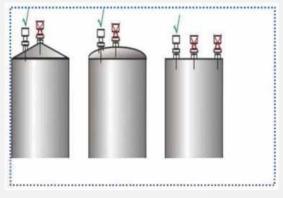
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Technical Details :

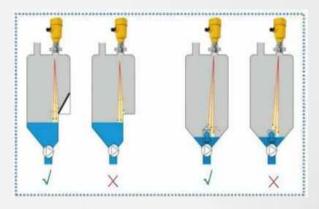
Model	FlowRLT - 720	
Frequency	78GHz-80GHz	
Max Range	10m, 15m, 20m, 30m, 50m	
Accuracy	± 2mm	
Signal Output	4~20mA / HART	
Communication	RS485/Modbus	
Power Supply	DC 24V (22V~30V)	
Process Temperature	-20°C ~ +70°C	
Process Pressure	Normal atmospheric pressure	
Ambient Humidity	(0%~95%) RH	
Beam Angle	3°	
Protection Classic	IP65/IP67	
Display	128*64Lattice LCD, Bluetooth App, WeChat Mini Program	
Process Connection	Threaded connection G1,G3/2	
Weight-Man Unit	0.5 kg	
Main Unit Size	Diameter 76 mm x Height 107 mm	
Housing	PP/ABS	

Model	FlowRLT - 900
Frequency	78GHz-80GHz
Max Range	10m, 15m, 20m, 30m, 50m
Accuracy	± 2mm
Signal Output	4~20mA / HART
Communication	RS-485/Modbus
Application	Liquid Solid level measurement (suitable for strong corrosive media)
Process Temperature	-40°C ~ +200°C
Process Pressure	-1 ~ 16 bar
Ambient Humidity	(0%~95%) RH
Beam Angle	3°
Protection Classic	IP65/IP67
Antenna Material	PTFE/PFA
Explosion-proof grade	Exdia II CT6Gb
Power	<0.5W (two-wire)
Power Supply	DC24V

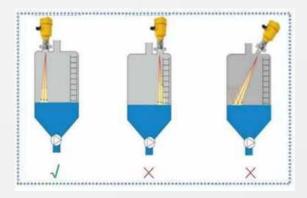
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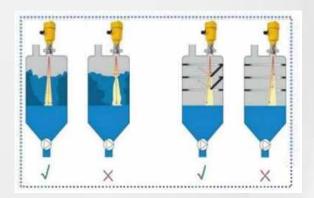
Diagram



Avoid false echos

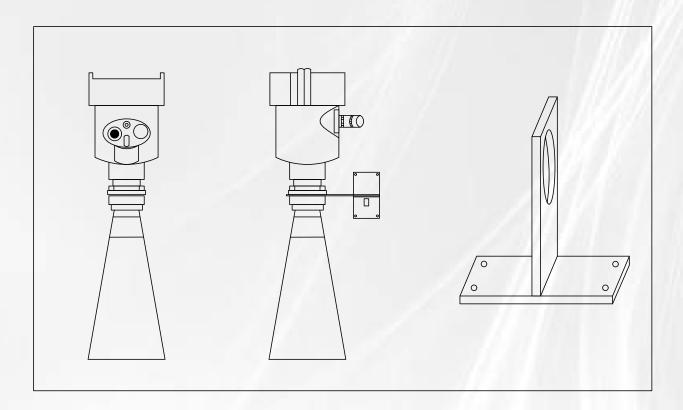


Ladder position and tank with grilles processing



Tank with material hanging & thank with grilles

Technical Drawings :





Product Ordering Information

Order Code for FlowRLT Series Model

	Description	Code
Model	FlowRLT-900	C 1
Model	FlowRLT-720	C 2
	FlowRLT-630	C 3

	Description	Code
Measuring Type	Liquid	L
.,,,,,	Solid	S

	Description	Code
	10	M 1
Measuring	15	M 2
Range	20	M 3
	30	M 4
	50	M 5

	Description	Code
Process Connection	Threaded	Т
Type	Flange-End	F
	Custom	Cust

	Description	Code
Process Connection	1/2" BSP	PC 1
Standard	1/2" NPT	PC 2
	ASA 150#	Pc 3

^{*}De-codification from Right to Left and Top to Bottom

Process Connection MOC	Description	Code
	PP	0 1
	PTFE	02
	MS	03
	SS 304	0 4
	SS 316	0.5

	Description	Code
Temperature	-40°C to 60°C	T 1
Range	-40°C to 120°C	T 2
	-40°C to 200°C	Т3

	Description	Code
Cable Entry	M20 x 1.5 (F)	E1
	1/2 NPT (F)	E 2

	Description	Code
Power	230 VAC	P 1
Supply	24 VDC	P 2
	Custom	P 3

Output	Description	Code
	4-20mA	01
	4-20mA+HART	02

	Description	Code
Communication	RS 485	CO 1
Output	Customised	Cust

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