



Product Overview

Guided Wave Radar Level Transmitter

26G High Frequency Radar Level Transmitter

Focus On Level Measurement



Guided Wave Radar Level Transmitter

Overview

The guided wave radar level transmitter is used for liquid, solid particles and small size tanks, all kinds of conductive and non-conductive mediums. Such as coal bunker, ash bin, oil tanks and etc. Guided wave radar level transmitter offers continuously measurement of the level of liquids, particles and slurries. The measurement won't be affected by the medium type, temperature, inert gas, steam, dust, foam and so on. The accuracy could reach to 3mm, the measuring range can be 30 meters, high temperature resistance could be 250 centigrade and high pressure resistance can be 20 kgs.

Principle

Guided wave radar level transmitter is a level measuring instrument based on time travel principle, the radar wave runs at the speed of light, the running time can be converted into a level signal by electronic components. When the pulse reaches the surface of the material, the pulse is reflected back and is received by the receiving container inside the instrument, the distance the signal is converted to level signals.

Reflected pulse signal along the cable or rod antenna type transmit to the instrument electronic circuit parts, the microprocessor processes the signal, identify the microwave pulse echo generated in the material surface. Correct identification of the echo signal are completed the implementation by the pulse software, the distance D from the material surface and the pulse travel time T is proportional:

$$D=C \times T/2$$

Where C is the speed of light

Because the empty distance E is known, the level L is:

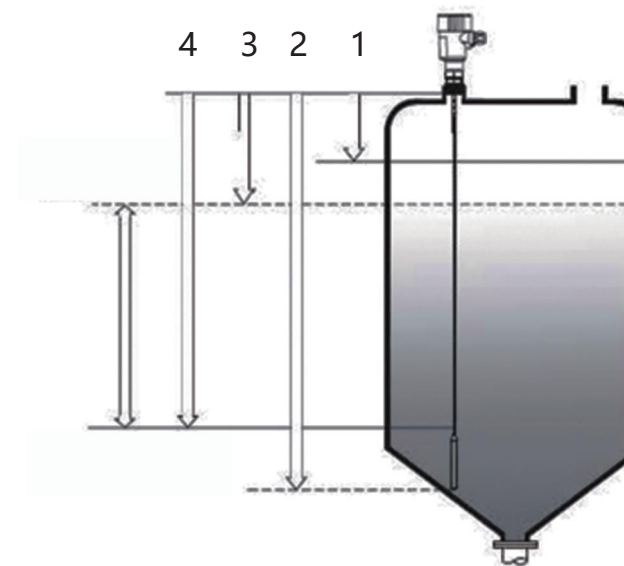
$$L=E-D$$

By entering the empty height of E (= zero), full tank height F (= hundred) and the application to set some parameters, application parameters will automatically adapt the instrument to measure the environment, corresponding to the 4-20mA output.

Explanation:

- 1--- Blind Zone
- 2--- Measurement Range
- 3--- Max Adjustment
- 4--- Min Adjustment

- Blind spot is the minimum distance between the top of the highest material surface materials and measurement reference point.
- The bottom of the blind refers to a distance near the very bottom of the cable can not be accurately measured.
- Between the top and bottom of the blind is blind effective measure distances.



Note: In order to ensure the accuracy of level measurement, the material should be located between the top and bottom of the blind.

VSAN-RLT-51 Radar Level Transmitter



Application	Solids, Powders, Liquids
Measuring Range	0~30m
Connection Process	Thread、 Flange
Medium Temperature	(-40~250) °C
Process Pressure	(-0.1~2) MPa
Accuracy	±3mm
Signal Output	(4~20) mA HART
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	500MHZ~1.8GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard		
	I	Intrinsically Safe		
	D	Flameproof		
	F	Dust Ignition-proof		
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Material	4	Stainless Steel 304		
	6	Stainless Steel 316L		
	9	304 Lining Material PTFE		
	Y	Special Custom		
Process Connection	Q	G1A Thread	W	NPT1 Thread
	G	G 1½A Thread	N	NPT 1½ Thread
	A	Flange DN50	J	Flange DN65
	B	Flange DN80	C	Flange DN100
	F	Flange DN125	E	Flange DN200
	D	Flange DN150	Y	Special Custom
	H	Flange DN250		
Seal/Process Temperature	P	Ordinary Type/(-40~120℃)		
	G	High Temperature/(-40~250℃) With Heat Sink		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Cable Length	XXX	User Specified Unit : m		
Special Custom	Y	Special Custom		

VSAN-RLT-52 Radar Level Transmitter



Application	Solids, Powders, Liquids
Measuring Range	0~6m
Connection Process	Thread、Flange
Medium Temperature	(-40~250) °C
Process Pressure	(-0.1~2) MPa
Accuracy	±3mm
Signal Output	(4~20) mA HART
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	500MHZ~1.8GHZ

Unit	Code	Parameters		
Instrument Type	P	Standard		
	I	Intrinsically Safe		
	D	Flameproof		
	F	Dust Ignition-proof		
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Material	4	Stainless Steel 304		
	6	Stainless Steel 316L		
	9	304 Lining Material PTFE		
	Y	Special Custom		
Process Connection	Q	G1A Thread	W	NPT1 Thread
	G	G 1½A Thread	N	NPT 1½ Thread
	A	Flange DN50	J	Flange DN65
	B	Flange DN80	C	Flange DN100
	F	Flange DN125	E	Flange DN200
	D	Flange DN150	Y	Special Custom
	H	Flange DN250		
Seal/Process Temperature	P	Ordinary Type/(-40~120℃)		
	G	High Temperature/(-40~250℃) With Heat Sink		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Rod Length	XXX	User Specified Unit : m		
Special Custom	Y	Special Custom		

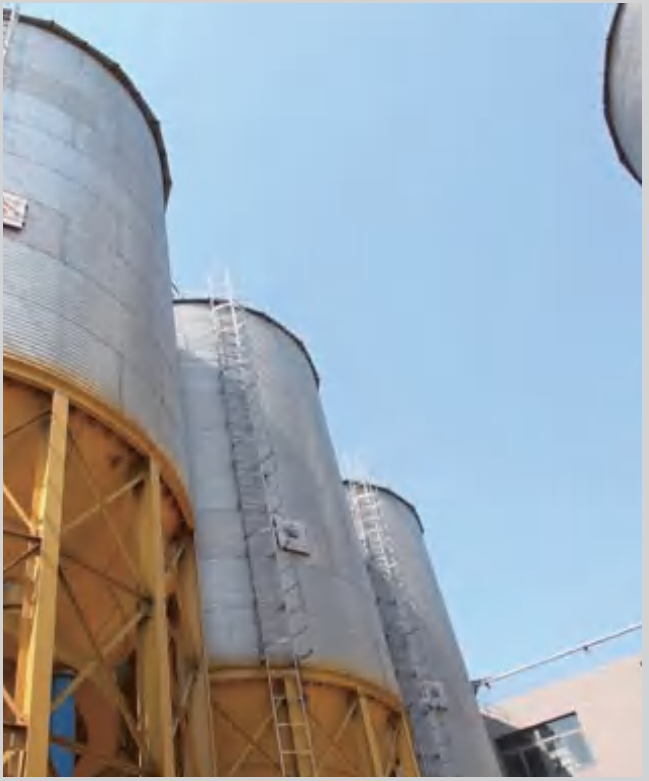


VSAN-RLT-56 Radar Level Transmitter



Application	Low Dielectric Constant Liquid, Surface Fluctuation Liquid
Measuring Range	0~3m
Connection Process	Thread、 Flange
Medium Temperature	(-40~250) °C
Process Pressure	(-0.1~2) MPa
Accuracy	±3mm
Signal Output	(4~20) mA HART
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	500MHZ~1.8GHZ

Unit	Code	Parameters		
Instrument Type	P	Standard		
	I	Intrinsically Safe		
	D	Flameproof		
	F	Dust Ignition-proof		
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Material	4	Stainless Steel 304		
	6	Stainless Steel 316L		
	Y	Special Custom		
Process Connection	Q	G1A Thread	W	NPT1 Thread
	G	G 1½A Thread	N	NPT 1½ Thread
	A	Flange DN50	J	Flange DN65
	B	Flange DN80	C	Flange DN100
	F	Flange DN125	E	Flange DN200
	D	Flange DN150	Y	Special Custom
	H	Flange DN250		
Seal/Process Temperature	P	Ordinary Type/(-40~120°C)		
	G	High Temperature/-40~250°C With Heat Sink		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Rod Length	XXX	User Specified Unit : m		
Special Custom	Y	Special Custom		



VSAN-RLT-5X Comparison Table



VSAN-51
Radar Level Transmitter



VSAN-52
Radar Level Transmitter



VSAN-56
Radar Level Transmitter

Application	Solids, Powders, Liquids	Solids, Powders, Liquids	Low Dielectric Constant Liquid, Surface Fluctuation Liquid
Measuring Range	0~30m	0~6m	0~3m
Connection Process	Thread、Flange	Thread、Flange	Flange
Medium Temperature	(-40~250) °C	(-40~250) °C	(-40~250) °C
Process Pressure	(-0.1~2) MPa	(-0.1~2) MPa	(-0.1~2) MPa
Signal Output	(4~20) mA HART	(4~20) mA HART	(4~20) mA HART
Accuracy	±3mm	±3mm	±3mm
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68	IP68	IP68
Frequency Range	500MHZ~1.8GHZ	500MHZ~1.8GHZ	500MHZ~1.8GHZ

VSAN-RLT-26G High Frequency Level Transmitter



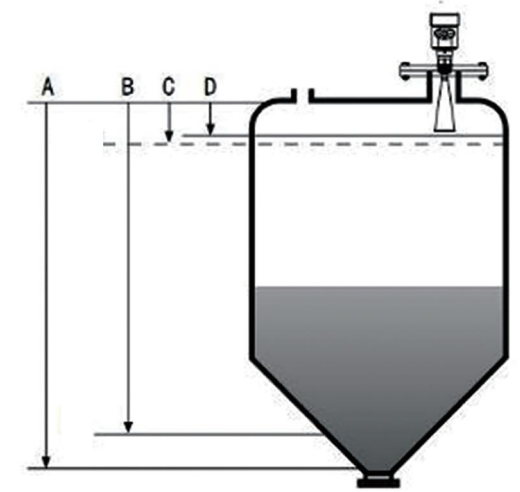
Overview

The VSAN-6X series radar is a non-contact high frequency radar level measuring instrument with a transmission frequency of 26GHz, the maximum measurement range can reach up to 70 meters. Antenna is optimized further processing, the new microprocessors have higher speed and efficiency can be done signal analysis, the instrumentation can be used for reactor, solid silo and very complex measurement environment.

Principle

Radar level transmitter antenna microwave pulse is narrow, the downward transmission antenna. Microwave exposure to the medium surface is reflected back again by the antenna system receives, sends the signal to the electronic circuit automatically converted into level signals (because the microwave propagation speed, microwave to reach the target and the reflected back to the receiver this time is almost instantaneous)

- A Range Set
- B Low adjustment
- C High adjustment
- D Blind Area



Datum measurement: Thread bottom or the sealing surface of the range.

Note: Make sure the material cannot enter the measuring blind area (Figure D shown above).

The characteristics of 26G radar transmitters

1. Non-contact measurement, no wear, no pollution.
2. Small antenna size, easy to install;
3. A shorter wavelength, the reflection of solid surface inclination is better.
4. The measuring range is smaller, for a measurement will yield good results.
5. Beam angle is small, the energy is concentrated, can enhance the ability of echo and to avoid interference.
6. Could measuring strong corrosive liquids.
7. Almost not affected by water vapor in the atmosphere, the temperature and pressure changes.
8. Can measure accurately under the environment of dust.
9. High signal-to-noise ratio, the level fluctuation state can obtain better performance.
10. High frequency, can measure solid and low dielectric constant mediums.

VSAN-RLT-61 Radar Level Transmitter



Application	Corrosive Liquids
Measuring Range	0~20m
Connection Process	Thread、Flange
Medium Temperature	(-40~120) °C
Process Pressure	(-0.1~0.3) MPa
Accuracy	±5mm
Signal Output	(4~20) mA HART/RS485 MODBUS
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	26GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard		
	I	Intrinsically Safe		
	D	Flameproof		
	F	Dust Ignition-proof		
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	316L Stainless steel /IP68		
Material	4	Stainless Steel 304	6	Stainless Steel 316L
	7	PTFE	8	PP
	Y	Special Custom		
Sensor Type	A	Rod Type PVDF		
	B	Rod Type PTFE (150mm)		
	C	Rod Type PTFE(200mm)		
	D	Rod Type PTFE(250mm)		
Process Connection	G	G 1½A Thread	N	NPT 1½ Thread
	A	Flange DN50	J	Flange DN65
	B	Flange DN80	C	Flange DN100
	D	Flange DN150	E	Flange DN200
	H	Flange DN250	Y	Special Custom
Electronic Unit	2	(4~20)mA 24VDC/HART Two-Wire		
	3	(4~20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	4	RS485 MODBUS-RTU Communication Protocol /Four-Wire		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Range	1	(0~5) m	2	(0~10) m
	3	(0~20) m		
Special Custom	Y	Special Custom		

VSAN-RLT-62 Radar Level Transmitter



Application	Liquids, Slurry
Measuring Range	0~70m
Connection Process	Thread、Flange
Medium Temperature	(-40~250) °C
Process Pressure	(-0.1~2) MPa
Accuracy	±3mm
Signal Output	(4~20) mA HART/RS485 MODBUS
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	26GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard		
	I	Intrinsically Safe		
	D	Flameproof		
	F	Dust Ignition-proof		
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	316L Stainless steel /IP68		
Material	4	Stainless Steel 304	6	Stainless Steel 316L
	Y	Special Custom		
Sensor Type	1	Directional Type		
Process Connection	G	G 1½A Thread	N	NPT 1½ Thread
	A	Flange DN50	J	Flange DN65
	B	Flange DN80	C	Flange DN100
	D	Flange DN150	E	Flange DN200
	H	Flange DN250	Y	Special Custom
Antenna Type	A	Horn Antenna Φ 46	B	Horn Antenna Φ 76
	C	Horn Antenna Φ 96	D	Horn Antenna Φ 121
	E	Horn Antenna Φ 96 Longer	Y	Special Custom
Seal/Process Temperature	P	(-40 ~ 150)°C		
	G	(-40 ~ 250)°C (With Heat Sink)		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	4	RS485 MODBUS-RTU Communication Protocol /Four-Wire		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Range	1	(0~5) m	2	(0~10) m
	3	(0~20) m	4	(0~30) m
	5	(0~70) m		

VSAN-RLT-63 Radar Level Transmitter



Application	Solid Particles, Solid Powder, All kinds Of Dust Environment
Measuring Range	0~70m
Connection Process	Thread、Flange
Medium Temperature	(-40~250) °C
Process Pressure	(-0.1~2) MPa Directional
Accuracy	±15mm
Signal Output	(4~20) mA HART/RS485 MODBUS
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	26GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard	I	Intrinsically Safe
	D	Flameproof	F	Dust Ignition-proof
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Material	4	Stainless Steel 304	6	Stainless Steel 316L
	Y	Special Custom		
Sensor Type	1	Directional Type	2	Directional Purge Type
	3	Universal Type	4	Universal Purge Type
Process Connection	G	G 1½A Thread	N	NPT 1½ Thread
	B	Flange DN80	C	Flange DN100
	F	Flange DN125	D	Flange DN150
	E	Flange DN200	Y	Special Custom
Antenna Type	B	Horn Antenna Φ 76	C	Horn Antenna Φ 96
	D	Horn Antenna Φ 121	E	Horn Antenna Φ 96 Longer
	Y	Special Custom		
Seal/Process Temperature	P	(-40 ~ 150)°C		
	G	(-40 ~ 250)°C (With Heat Sink)		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	4	RS485 MODBUS-RTU Communication Protocol /Four-Wire		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Range	1	(0~5) m	2	(0~10) m
	3	(0~20) m	4	(0~30) m
	5	(0~70) m		
Special Custom	Y	Special Custom		

VSAN-RLT-64 Radar Level Transmitter



Application	Solid Material, Solid Powder, All kinds Of Dust Environment
Measuring Range	0~70m
Connection Process	Thread、Flange
Medium Temperature	(-40~250) °C
Process Pressure	(-0.1~2) MPa
Accuracy	±15mm
Signal Output	(4~20) mA HART/RS485 MODBUS
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	26GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard	I	Intrinsically Safe
	D	Flameproof	F	Dust Ignition-proof
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Material	4	Stainless Steel 304	6	Stainless Steel 316L
	Y	Special Custom		
Sensor Type	1	Directional Type	2	Directional Purge Type
	3	Universal Type	4	Universal Purge Type
Process Connection	G	G 1½A Thread	N	NPT 1½ Thread
	E	Flange DN200	H	Flange DN250
	Y	Special Custom		
Antenna Type	F	Paraboloidal Φ 198	G	Paraboloidal Φ 242
	Y	Special Custom		
Seal/Process Temperature	P	(-40 ~ 150)°C		
	G	(-40 ~ 250)°C (With Heat Sink)		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	4	RS485 MODBUS-RTU Communication Protocol /Four-Wire		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Range	1	(0~5) m	2	(0~10) m
	3	(0~20) m	4	(0~30) m
	5	(0~70) m		
Special Custom	Y	Special Custom		

VSAN-RLT-65 Radar Level Transmitter



Application	River Channel Reservoir Lake Tide
Measuring Range	0~70m
Connection Process	Brackets
Medium Temperature	(-40~120) °C
Process Pressure	Atmospheric Pressure
Accuracy	±5mm
Signal Output	(4~20) mA HART/RS485 MODBUS
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	26GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard	I	Intrinsically Safe
	D	Flameproof	F	Dust Ignition-proof
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Sensor Type	A	Hydrologic sensor		
Bracket	Z	With		
	E	Without		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	4	RS485 MODBUS-RTU Communication Protocol /Four-Wire		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Range	1	(0~5) m	2	(0~10) m
	3	(0~20) m	4	(0~30) m
	5	(0~70) m		
Special Custom	Y	Special Custom		

VSAN-RLT-66 Radar Level Transmitter



Application	Liquid, Slurry, Dew Occasions
Measuring Range	0~20m
Connection Process	Flange、Thread
Medium Temperature	(-40~150) °C
Process Pressure	(-0.1~2) MPa
Accuracy	±3mm
Signal Output	(4~20) mA HART/RS485 MODBUS
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	26GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard	I	Intrinsically Safe
	D	Flameproof	F	Dust Ignition-proof
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Material	4	Stainless Steel 304	6	Stainless Steel 316L
	Y	Special Custom		
Process Connection	G	G 1½A Thread	N	NPT 1½ Thread
	B	Flange DN80	C	Flange DN100
	D	Flange DN150	E	Flange DN200
	H	Flange DN250	Y	Special Custom
Antenna Type	B	Water droplets antenna Φ 76		
	Y	Special Custom		
Process Temperature	P	(-40 ~ 150)°C		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/Four-Wire (Dual Chamber Housing)		
	4	RS485 MODBUS-RTU Communication Protocol /Four-Wire		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Range	1	(0~5) m		
	2	(0~10) m		
	3	(0~20) m		
Special Custom	Y	Special Custom		

VSAN-RLT-67 Radar Level Transmitter



Application	Liquid, Slurry, Steam, Condensation Occasions
Measuring Range	0~20m
Connection Process	Flange
Medium Temperature	(-40~150) °C
Process Pressure	(-0.1~3) MPa
Accuracy	±5mm
Signal Output	(4~20) mA HART/RS485 MODBUS
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db
Protection Grade	IP68
Frequency Range	26GHZ



Unit	Code	Parameters		
Instrument Type	P	Standard	I	Intrinsically Safe
	D	Flameproof	F	Dust Ignition-proof
Housing/Protection Grade	L	Die-Casting Aluminium With Epoxy Coating/IP68		
	G	Die-Casting Aluminium With Epoxy Coating Dual Chamber /IP67		
	D	Stainless steel /IP68		
Material	4	Stainless Steel 304	6	Stainless Steel 316L
	7	PTFE	Y	Special Custom
Antenna Type	A	Flat DN50	B	Flat DN80
	C	Flat DN100	F	Flat DN125
	Y	Special Custom		
Seal/Process Temperature	P	(-40 ~ 150)°C		
Electronic Unit	2	(4 ~ 20)mA 24VDC/HART Two-Wire		
	3	(4 ~ 20)mA 220VAC/ Four-Wire (Dual Chamber Housing)		
	4	RS485 MODBUS-RTU Communication Protocol /Four-Wire		
	Y	Special Custom		
Cable Inlet	M	M20*1.5		
	N	NPT1/2		
Scene Display/Programmed	A	LCD Without Backlight		
	X	LCD With Backlight		
Range	1	(0~5) m		
	2	(0~10) m		
	3	(0~20) m		
Special Custom	Y	Special Custom		

VSAN-RLT-6X Comparison Table



VSAN-61
Radar Level Transmitter



VSAN-62
Radar Level Transmitter



VSAN-63
Radar Level Transmitter



VSAN-64
Radar Level Transmitter



VSAN-65
Radar Level Transmitter



VSAN-66
Radar Level Transmitter



VSAN-67
Radar Level Transmitter

Application	Corrosive Liquids	Liquids、Slurry	Solid Particles, Solid Powder, All kinds Of Dust Environment	Solid Material, Solid Powder, All kinds Of Dust Environment	River Channel Reservoir Lake Tide	Liquid, Slurry, Dew Occasions	Liquid, Slurry, Steam, Condensation Occasions
Measuring Range	0~20m	0~70m	0~70m	0~70m	0~70m	0~20m	0~20m
Connection Process	Thread、Flange	Thread、Flange	Flange	Thread、Flange	Stents	Flange、Thread	Flange
Medium Temperature	(-40~120) °C	(-40~250) °C	(-40~250) °C	(-40~250) °C	(-40~120) °C	(-40~120) °C	(-40~120) °C
Process Pressure	(-0.1~0.3) MPa	(-0.1~2) MPa	(-0.1~2) MPa Directional	(-0.1~2) MPa	Atmospheric Pressure	(-0.1~2) MPa	(-0.1~3) MPa
Signal Output	(4~20) mA HART/RS485 MODBUS	(4~20) mA HART/RS485 MODBUS	(4~20) mA HART/RS485 MODBUS	(4~20) mA HART/RS485 MODBUS	(4~20) mA HART/R S485 MODBUS	(4~20) mA HART/RS485 MODBUS	(4~20) mA HART/RS485 MODBUS
Accuracy	±5mm	±3mm	±15mm	±15mm	±5mm	±3mm	±5mm
Explosion-Proof Grade	Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db				Ex db ia IIC T6 Gb;Ex tb IIIC T80°C Db		
Protection Grade	IP68				IP68		
Frequency Range	26GHZ				26GHZ		