

26GHz Radar Level Meter

Product Manual

Model: ZSRD50X SERIES



Zias (Shanghai) lot Technology Co., Ltd

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26GHz Radar Level Meter

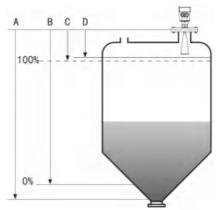
1. Product Overview

This series of radar level meter adopted 26G high frequency radar sensor, the maximum measurement range can reach up to 80 meters. Antenna is optimized further processing, the new fast 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, electromagnetic wave to reach the target and the reflected back to the receiver this time is almost instantaneous).

- A Range set
- B Low adjustment
- C High
- D Blind area



Datum measurement: Screw thread bottom or the sealing surface of the flange.

Note: Make sure the radar level meter the highest level cannot enter the measuring blind area (Figure D shown below).

• The characteristics of 26G radar level meter:

- > Small antenna size, easy to install; Non-contact radar, no wear, no pollution.
- > Almost no corrosion, bubble effect; almost not affected by water vapor in the atmosphere, the temperature and pressure changes.
- > Serious dust environment on the high level meter work has little effect.
- A shorter wavelength, the reflection of solid surface inclination is better.
- ➤ Beam angle is small, the energy is concentrated, can enhance the ability of echo and to avoid interference.
- ➤ The measuring range is smaller, for a measurement will yield good results.
- > High signal-to-noise ratio, the level fluctuation state can obtain better performance.
- ➤ High frequency, measurement of solid and low dielectric constant of the best choice.

2. Product Introduction

ZSRD501



Application: All kinds of corrosive liquid

Measuring Range: 10 meters

Process Connection: Thread, Flange Process Temperature: $-40^{\circ}\text{C} \sim 130^{\circ}\text{C}$ Process Pressure: $-0.1 \sim 0.3$ MPa

Accuracy: ± 5mm

Protection Grade: IP67

Frequency Range: 26GHz

Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V) Signal Output: 4... 20mA /HART (2-wire / 4-wire)

RS485/ Modbus

Outer Covering: Aluminum / Plastic / Stainless steel Explosion-proof Grade: Exia II C T6 Ga/ Exd II C T6 Gb

ZSRD502



Application: Slightly corrosive liquid

Measuring Range: 30 meters

Process Connection: Thread, Flange

Process Temperature: -40 °C ~130 °C (Standard type)

-40°C~230°C (High temperature type)

Process Pressure: -0.1 ~ 4.0 MPa

Accuracy: ± 3mm

Protection Grade: IP67

Frequency Range: 26GHz

Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V) Signal Output: 4... 20mA /HART (2-wire / 4-wire)

RS485/ Modbus

Outer Covering: Aluminum / Plastic / Stainless steel Explosion-proof Grade: Exia II C T6 Ga/ Exd II C T6 Gb

ZSRD503T



Application: Corrosive liquids, vapors, volatile liquids

Measuring Range: 20 meters Process Connection: Flange

Process Temperature: -40°C~130°C (Standard type)

-40°C~230°C (High temperature type)

Process Pressure: -0.1~2.0 MPa

Protection Grade: IP67

Accuracy: ±3mm

Frequency Range: 26GHz

Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V) Signal Output: 4... 20mA /HART (2-wire / 4-wire)

RS485/ Modbus

Outer Covering: Aluminum / Plastic / Stainless steel Explosion-proof Grade: Exia II C T6 Ga/ Exd II C T6 Gb



Application: Solid material, Strong dust

easy to crystallize, condensation occasion

Measuring Range: 70 meters

Process Connection: Universal Flange

Process Temperature: -40° C ~ 130 °C (Standard type)

-40°C~230°C (High temperature type)

Process Pressure: -0.1~4.0 MPa (Flat flange)

-0.1~0.3MPa (Universal flange)

Protection Grade: IP67 Accuracy: ±15mm

Frequency Range: 26GHz

Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V) Signal Output: 4... 20mA /HART (2-wire / 4-wire)

RS485/ Modbus

Outer Covering: Aluminum / Plastic / Stainless steel Explosion-proof Grade: Exia II C T6 Ga/ Exd II C T6 Gb

ZSRD504



Application: Solid material, Strong dust,

easy to crystallize, condensation occasion

Measuring Range: 80 meters

Process Connection: Thread, Universal Flange
Process Temperature: -40℃~130℃(Standard type)

-40 °C ~230 °C (High temperature type)

Process Pressure: -0.1 ~ 0.3 MPa Measurement Accuracy: ±15mm

Protection Grade: IP67
Frequency Range: 26GHz

Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V) Signal Output: 4... 20mA / HART (2-wire / 4-wire)

RS485/ Modbus

Outer Covering: Aluminum / Plastic / Stainless steel Explosion-proof Grade: Exia II C T6 Ga /Exd II C T6 Gb

ZSRD505



Application: Solid particles, Powder

Measuring Range: 30 meters

Process Connection: Thread, Flange

Process Temperature: -40 °C ~130 °C (Standard type)

-40°C~230°C (High temperature type)

Process Pressure: -0.1 ~ 4.0 MPa (Flat flange)

-0.1 ~ 0.3 MPa (Universal Flange)

Accuracy: ±15mm
Protection Grade: IP67

Frequency Range: 26GHz

Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V) Signal Output: 4... 20mA /HART (2-wire / 4-wire)

RS485/ Modbus

Outer Covering: Aluminum / Plastic / Stainless steel Explosion-proof Grade: Exia II C T6 Ga /Exd II C T6 Gb



Application: Hygienic liquid storage,

Corrosive container

Measuring Range: 20 meters Process Connection: Flange

Medium Temperature: -40°C~100°C Process Pressure: -0.1~1.6 MPa

Accuracy: ± 3mm

Protection Grade: IP67 Frequency Range: 26GHz

Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V) Signal Output: 4... 20mA/HART (2-wire / 4-wire)

RS485/ Modbus

Outer Covering: Aluminum / Plastic / Stainless steel Explosion-proof Grade: Exia II C T6 Ga /Exd II C T6 Gb

3. The Installation Requirements

Installation guide:

Be installed in the diameter of the 1/4 or 1/6. Note: The minimum distance from the tank wall should be 200mm.

Note: ① datum

2) The container center or axis of symmetry

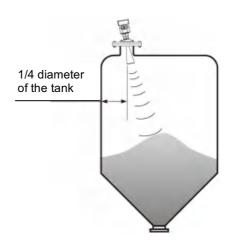
The minimum distance 200mm

 The top conical tank level, can be installed at the top of the tank is intermediate, can guarantee the measurement to the conical bottom.



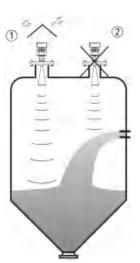
A feed antenna to the vertical alignment surface.
 If the surface is rough, stack angle must be used to adjust the angle of universal flange of the antenna to the alignment surface.

(Due to the solid surface tilt will cause the echo attenuation, even Loss of signal.)

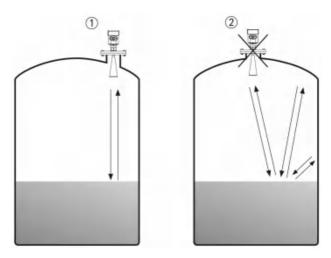


Typical installation errors:

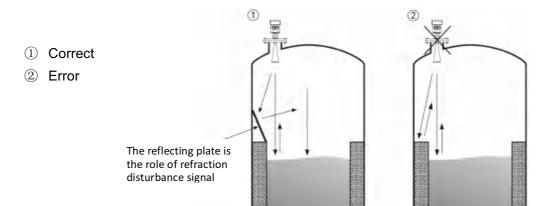
- ➤ Conical tank cannot be installed above the feed port. **Note**: outdoor installation should adopt sunshade.
- ① Correct
- ② Error rainproof measures



- > The instrument cannot be installed in the arched or domed roof intermediate. In addition to produce indirect echo is also affected by the echoes. Multiple echo can be larger than the real value of signal echo, because through the top can concentrate multiple echo. So cannot be installed in a central location.
 - ① Correct
 - ② Error

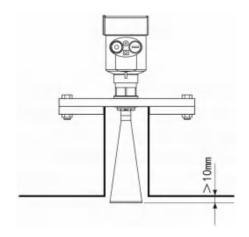


> There are obstacles affecting measurement needed reflection plate.



• Height of nozzle:

Antenna extends into the tank at least 10mm distance.



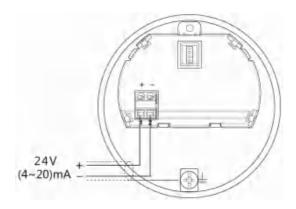
4. The Electrical Connection

• The power supply voltage:

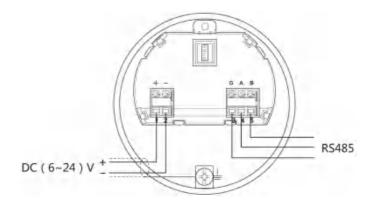
(4~20)mA/HART (Two wire system)	The power supply and the output current signal sharing	
	a two core shield cable. The supply voltage range	
	see technical data. For intrinsically safe type must	
	be a safety barrier between the power supply and	
	the instrument.	
(4~20)mA/HART(Four wire system) Separate power supply and the current signal,	
	respectively using a two-core shielded cable. The	
	supply voltage range see technical data.	
RS485 / Modbus Powe	Power supply and Modbus signal line separated respectively	
	using a two-core shielded cable, the power supply	
	voltage range see technical data.	

Connection mode:

> 24V two wire wiring diagram as follows:



▶ 6~24V RS485/Modbus wiring diagram as follows:

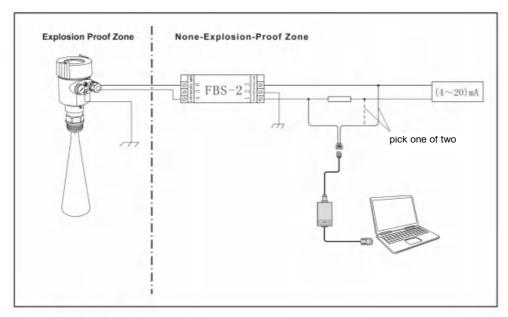


Explosion Proof Connection

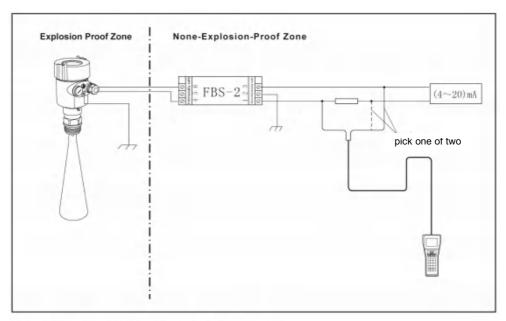
The intrinsic safety version sensors (Exia IIc T6) use Alu-die casting housing and filling Silicone rubber sealants internal structure aimed to prevent sparks resulted from circuit failure from leaking out. It is applicable for the continuous level measurement of flammable medium under Exia IIc T6.

A safety barrier FBS-2 must be used together with the intrinsic safety instrument. It is an associated device to this product for the power supply of this product. The main specification is intrinsic safety: Exia IIC, voltage of power supply: 24V DC \pm 5%, short-circuit current: 135mA, operating current: 4...20mA.

All cables must be shielded. The max length is 500m for the cable from the barrier to the sensor. Stray capacitor \leq 0.1 μ F/Km, stray inductance 1mH/Km. Instrument must be connected to the ground potential. Any unapproved associated device is not allowed to be used.



Adjustment with Software



Adjustment with HART Handheld Programmer

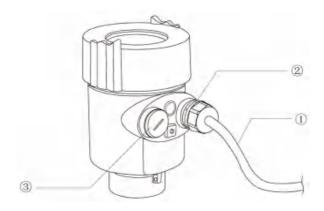
Safety instructions:

- Please observe the local electrical code requirements!
- Please comply with local requirements for personnel health and safety regulations.
 All electrical components of instrument operation must be completed by the formal training of professionals.
- Please check the instrument nameplate to provide product specifications meet your requirements. Please make sure that the power supply voltage and instrument nameplate on the requirements.

Protection grade:

This instrument meets the protection class IP66/67 requirements, please ensure the waterproof cable sealing head. The following diagram:





How to install to meet the requirements of IP67:

Please make sure that the sealing head is not damaged.

Please make sure that the cable is not damaged.

Please make sure that the cable for use with electrical connection specification.

Cable into the electrical interface before its curved downward, ensure that the water will not flow into the shell, see the ①

Tighten the cable seal head, see the 2

Please electrical interface will not use blind plug tight, see the 3

5. Instrument Commissioning

There are three kinds of debugging method:

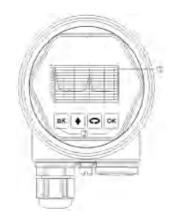
- 1) Display / Keyboard
- 2) Host debugging
- 3) HART handheld programmer

Display / Keyboard:

Please debug the instrumentation by four buttons on the display screen. There are three debug menu languages optional. After debugging is generally used only for display, through the glass window can read measured value very clearly.

Display / Keyboard

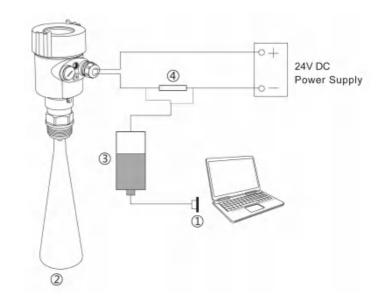
- ① Liquid crystal display(LCD)
- ② The key



PC debugging:

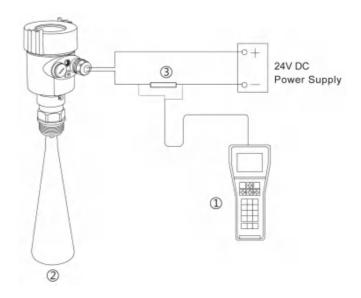
Connected to PC by HART

- ① RS232 interface or USB interface
- ② Radar level meter
- ③ HART adapter
- 4 250 Ω resistor



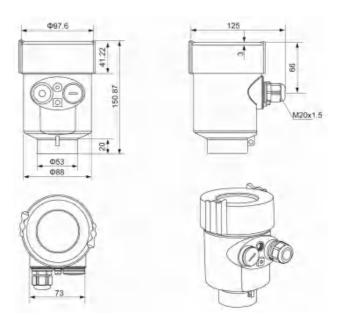
• HART handheld programmer:

- ① HART handheld programmer
- ② Radar level meter
- $\ensuremath{\Im}$ 250 Ω resistor



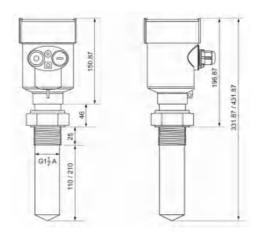
6. Structure Size (Unit: mm)

• The outer shell:

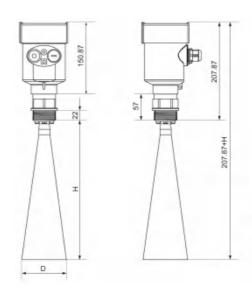


Appearance size:

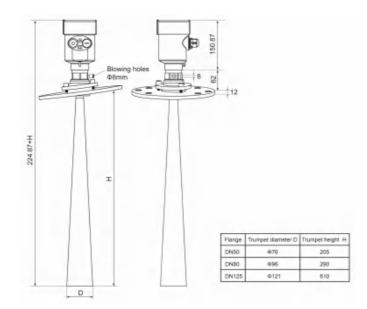
ZSRD501



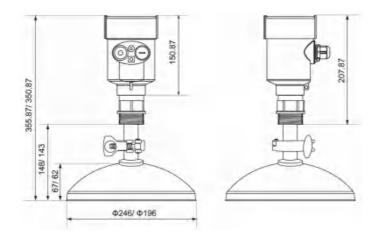
ZSRD502



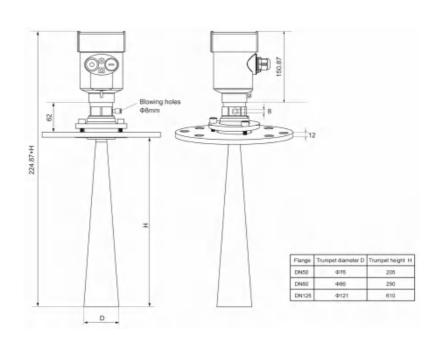
Flange	Trumpet diameter D	Trumpet height H
DN50	Φ46	140
DN80	Φ76	205
DN100	©96	290

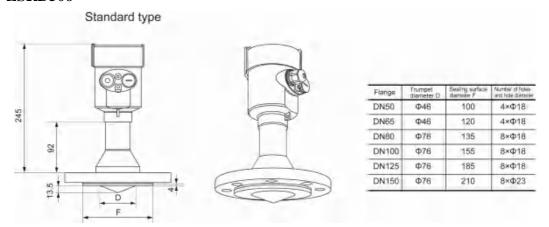


ZSRD504

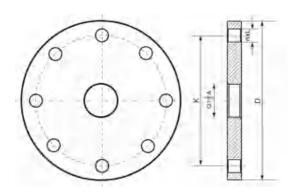


ZSRD505





• Flange type:



Flange Selection Tables					
Specification	Outer diameter D	Hole center distance K.	Number of Holes n	Hole diameter	
DN50	Ф165	Ф125	4	18	
DN80	Ф200	Ф160	.8	18	
DN100	Ф220	Ф180	8	18	
DN125	Ф250	Ф210	.8	18	
DN150	Ф285	Ф240	-8	22	
DN200	Ф340	Ф295	12	22	
DN250	Ф405	Ф355	12	26	

7. Technical Parameters

Process Connection Thread G1 $\frac{1}{2}$ " A / Thread 1 $\frac{1}{2}$ " NPT / Flange

Antenna Material Stainless Steel / PTFE

The outer shell

The seal between the shell and the shell cover
Casing window
Polycarbonate
The ground terminal
Stainless steel

The power supply voltage

Two wire system

The standard type $(16 \sim 26) \text{ V DC}$ Intrinsically safe $(21.6 \sim 26.4) \text{ V DC}$ Power dissipation $\max 22.5 \text{mA} / 1 \text{W}$

Allowable ripple

- <100Hz Uss<IV - (100~100K) Hz Uss<I0mV

Flameproof

(22.8 ~ 26.4) V DC 2-wire system

(198 ~242)V AC 4-wire system / 110V AC 4-wire system

The cable parameters

Cable entrance / plug 1 M20xl.5 cable entrance

1 blind plug

Terminal Conductor cross section 2.5mm²

Output parameters

The output signal $(4 \sim 20)$ mA/RS485

Communication protocol HART Resolution 1.6 μ A

Fault signal Constant current output; 20. 5mA

22mA 3.9mA

The integral time $(0 \sim 36)$ s, adjustable

Blind area the ends of the antenna

The maximum distance measurement

ZSRD501	10 meters	(Liquid type)
ZSRD502	30 meters	(Liquid type)
ZSRD502T	20 meters	(Liquid type)
ZSRD503	70 meters	(Solid type)
ZSRD504	80 meters	(Solid type)
ZSRD505	30 meters	(Solid type)
ZSRD506	20 meters	(Liquid type)

Microwave frequency 26GHz

Communication interface HART communication protocol

The measurement interval about 1 second (depending on the parameter settings)

Adjust the time about 1 second (depending on the parameter settings)

Display resolution 1 mm

Working storage and transportation temperature $(-40 \sim 80)^{\circ}$

Process temperature (the temperature of the antenna part)

ZSRD501 (-40~130)℃

ZSRD502/ZSRD502T/ZSRD503/ZSRD504/ZSRD505 (-40~130)℃ Standard type / (-

40~230)℃ High temperature type

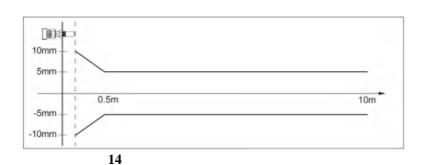
ZSRD506 (-40~100)℃

Pressure	Max.4MPa
Seismic	Mechanical vibration I0m/s², (10 ~ 150) Hz

8. Meter Linearity

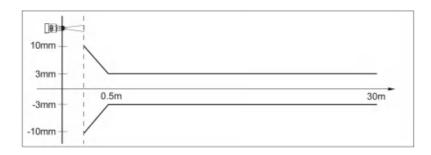
ZSRD501

Emission angle 20° Precision See chart



Emission angle Depending on the size of the antenna $- \cancel{C}$ 46mm 18° $- \cancel{C}$ 76mm 12° $- \cancel{C}$ 96mm 8° $- \cancel{C}$ 121mm 6°

Precision See chart

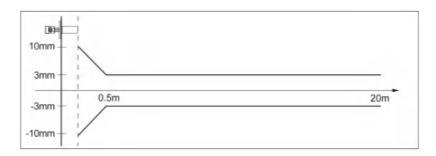


ZSRD502T

Emission angle Depending on the size of the antenna

- ¢ 76mm 14°

Precision See chart

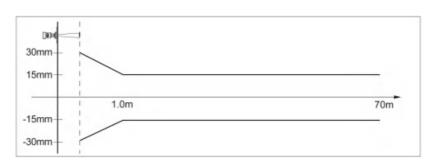


ZSRD503

Emission angle Depending on the size of the antenna

- ¢ 46mm 18° - ¢ 76mm 12° - ¢ 96mm 8° - ¢ 121mm 6°

Precision See chart



Emission angle Depending on the size of the antenna

- ¢ 196mm 4° - ¢ 242mm 4°

Precision See chart



ZSRD505

Emission angle Depending on the size of the antenna

- ¢ 76mm 12° - ¢ 96mm 8° - ¢ 121mm 6°

Precision See chart



ZSRD506

Emission angle Depending on the size of the antenna

- ⊄ 76mm 12°

Precision See chart



9. Product Model Selection

• ZSRD501

License

- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof (Exd IIC T6 Gb)

Antenna Type / Material / Temperature

F Sealing horn / PTEE / -40... 130 $^{\circ}\mathrm{C}$

Process Connection / Material

- G Thread G11/2" A
- N Thread 11/2" NPT
- A Flange DN50 /PP
- B Flange DN80 /PP
- C Flange DN100 /PP
- Y Special custom

The Outlet Pipe Length of the Container

- A Outlet pipe 100mm
- B Outlet pipe 200mm

The Electronic Unit

- 3 (4~20) mA / 24V DC / HART two wire system
- 4 (4~20) mA / 220V AC / HART four wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

Outer Covering / Protection Grade

- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

Cable Line

M M 20x1.5

 $N \frac{1}{2}$ " NPT

Field Display/The Programmer

A With

X Without

• ZSRD502

License

- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof (Exd IIC T6 Gb)

Process Connection / Material

- G Thread G11/2"A / Stainless Steel 304
- N Thread 11/2" NPT / Stainless Steel 304
- A Flange DN50 / Stainless Steel 304
- B Flange DN80 / Stainless Steel 304
- C Flange DN100 / Stainless Steel 304
- Y Special Custom

Antenna Type / Material

- A Horn Antenna Φ46mm / Stainless Steel 316L
- B Horn Antenna Φ76mm / Stainless Steel 316L
- C Horn Antenna Φ96mm / Stainless Steel 316L
- Y Special Custom

Seal Up / Process Temperature

- V Viton / (-40~130) °C
- K Kalrez / (-40~230) °C

The Electronic Unit

- 3 (4~20) mA / 24V DC / HART two wire system
- 4 (4~20) mA / 220V AC / HART four wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

Outer Covering / Protection Grade

- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

Cable Line

- M M 20x1.5
- N 1/2" NPT

- A With
- X Without

ZSRD502T

License

- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof Type (Exd IIC T6 Gb)

Process Connection / Material

- A Flange DN80 / Stainless Steel 304
- B Flange DN100 / Stainless Steel 304
- C Flange DN150 / Stainless Steel 304
- Y Special Custom

Antenna Type / Material

- A Internal tapered rod antenna PVDF / 78mm
- B Internal tapered rod antenna PFA / 78mm
- C Internal tapered rod antenna PVDF / 1468mm

Seal Up / Process Temperature

- V Viton / (-40~130) °C
- P PFA / (-40~230) ℃

The Electronic Unit

- 3 (4~20) mA / 24V DC / HART 2-wire system
- 4 (4~20) mA / 220V AC / HART 4- wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

Outer Covering / Protection Grade

- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

Cable Line

- M M 20x1.5
- N 1/2" NPT

- A With
- X Without

License

- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof (Exd IIC T6 Gb)

Process Connection / Material

- G Thread G11/2"A / Stainless Steel 304
- N Thread 11/2" NPT / Stainless Steel 304
- B Flange DN80 / Stainless Steel 304
- C Flange DN100 / Stainless Steel 304
- D Flange DN125 / Stainless Steel 304
- E Flange DN150 / Stainless Steel 304
- M Flange DN80 / Universal joint
- K Flange DN100 / Universal joint
- T Flange DN125 / Universal joint
- Z Flange DN150 / Universal joint
- Y Special Custom

Antenna Type / Material

- B Horn Antenna Φ76mm / Stainless Steel 316L (With blow holes or dust cover)
- C Hom Antenna Φ96mm / Stainless Steel 316L (With blow holes or dust cover)
- D Horn Antenna Φ121mm / Stainless Steel 316L(With blow holes or dust cover)
- Y Special Custom

Seal Up / Process Temperature

- V Viton / (-40~130) °C
- K Kalrez / (-40~230) °C

The Electronic Unit

- 3 (4~20) mA / 24V DC / HART two wire system
- 4 (4~20) mA / 220V AC / HART four wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

Outer Covering / Protection Grade

- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

Cable Line

- M M 20x1.5
- N ½" NPT

- A With
- X Without

License

- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof (Exd IIC T6 Gb)

Process Connection / Material

- G Thread G11/2"A / Stainless Steel 304
- N Thread 11/2" NPT / Stainless Steel 304
- B Flange DN80 / Stainless Steel 304
- C Flange DN100 / Stainless Steel 304
- D Flange DN125 / Stainless Steel 304
- E Flange DN150 / Stainless Steel 304
- F Flange DN200 / Stainless Steel 304
- H Flange DN250 / Stainless Steel 304
- M Flange DN80 / Universal joint
- K Flange DN100 / Universal joint
- T Flange DN125 / Universal joint
- Z Flange DN150 / Universal joint
- W Flange DN200 / Universal joint
- V Flange DN250 / Universal joint
- Y Special Custom

Antenna Type / Material

- B Parabolic antenna Φ196mm / Stainless Steel 316L
- C Parabolic antenna Φ242mm / Stainless Steel 316L

Seal Up / Process Temperature

- V Viton / (-40~130) ℃
- K Kalrez / (-40~230) °C

The Electronic Unit

- 3 (4~20) mA / 24V DC / HART two wire system
- 4 (4~20) mA / 220V AC / HART four wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

Outer Covering / Protection Grade

- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

Cable Line

- M M 20x1.5
- N ½" NPT

- A With
- X Without

License

- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof (Exd IIC T6 Gb)

Process Connection / Material

- G Thread G11/2"A / Stainless Steel 304
- N Thread 11/2" NPT / Stainless Steel 304
- B Flange DN80 / Stainless Steel 304
- C Flange DN100 / Stainless Steel 304
- D Flange DN125 / Stainless Steel 304
- E Flange DN150 / Stainless Steel 304
- M Flange DN80 / Universal joint
- K Flange DN100 / Universal joint
- T Flange DN125 / Universal joint
- Z Flange DN150 / Universal joint
- Y Special Custom

Antenna Type / Material

- B Horn Antenna Φ76mm / Stainless Steel 316L (With blow holes or dust cover)
- C Hom Antenna Φ96mm / Stainless Steel 316L (With blow holes or dust cover)
- D Horn Antenna Φ121mm / Stainless Steel 316L(With blow holes or dust cover)
- Y Special Custom

Seal Up / Process Temperature

- V Viton / (-40~130) °C
- K Kalrez / (-40~230) ℃

The Electronic Unit

- 3 (4~20) mA / 24V DC / HART two wire system
- 4 (4~20) mA / 220V AC / HART four wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

Outer Covering / Protection Grade

- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

Cable Line

- M M 20x1.5
- N ½" NPT

- A With
- X Without

License

- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof (Exd IIC T6 Gb)

Process Connection / Material

- B Flange DN80 / PTFE
- C Flange DN100 / PTFE
- D Flange DN150 / PTFE
- E Flange DN80 / Stainless Steel 304
- F Flange DN100 / Stainless Steel 304
- G Flange DN150 / Stainless Steel 304
- Y Special Custom

Seal Up / Process Temperature

V Viton / (-40~100) °C

The Electronic Unit

- 3 (4~20) mA / 24V DC / HART two wire system
- 4 (4~20) mA / 220V AC / HART four wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

Outer Covering / Protection Grade

- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

Cable Line

M M 20x1.5

N ½" NPT

Field Display/The Programmer

A With

X Without