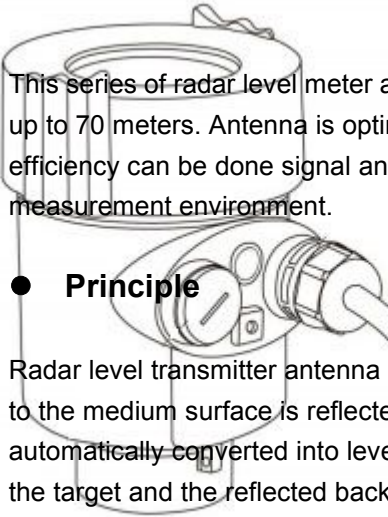

26G Radar Level Meter

Catalogue





Product Overview

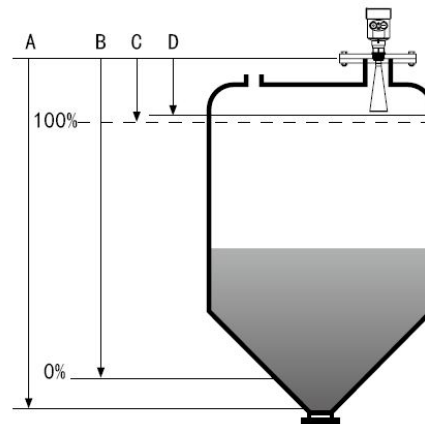


This series of radar level meter adopted 26G high frequency radar sensor, the maximum measurement range can reach up to 70 meters. Antenna is optimized further processing, the new fast microprocessors have higher speed and efficiency can be done signal analysis, the instrumentation can be used for reactor, 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.



Product Introduction

QTRD901



Suitable for Medium	All kinds of corrosive liquid
Explosion-proof Grade	Exia IIC T6 Ga
Measuring Range	10 meters
Frequency	26 GHz
Temperature:	-40°C ~ 120°C
Measurement Precision	±5mm
Process Pressure	-0.1 ~ 0.3 MPa
The signal Output	(4 ~ 20) mA/HART (Two wire/Four)RS485/Modbus
The Scene Display	Four digital LCD
Shell	Aluminum
Connection	Flange(optional)/Thread
Protection Grade	IP67

QTRD902



Suitable for Medium	Liquid
Explosion-proof Grade	Exia IIC T6 Ga
Measuring Range	30 meters
Frequency	26 GHz
Temperature:	-40°C ~ 150°C
Measurement Precision	±3mm
Process Pressure	-0.1 ~ 4.0 MPa
The signal Output	(4 ~ 20) mA/HART (Two wire/Four)RS485/Modbus
The Scene Display	Four digital LCD
Shell	Aluminum
Connection	Flange (optional) / Thread
Protection Grade	IP67



QTRD903



Suitable for Medium	Solid material, Strong dust
Explosion-proof Grade	Exia IIC T6 Ga
Measuring Range	70 meters
Frequency	26 GHz
Temperature:	-40°C ~ 250°C
Measurement Precision	±15mm
Process Pressure	-0.1 ~ 0.1MPa
The signal Output	(4 ~ 20) mA/HART (Two wire/Four)RS485/Modbus
The Scene Display	Four digital LCD
Shell	Aluminum
Connection	Universal Flange
Protection Grade	IP67

QTRD904



Suitable for Medium	Solid material, Strong dust
Explosion-proof Grade	Exia IIC T6 Ga
Measuring Range	70 meters
Frequency	26 GHz
Temperature:	-40°C ~ 250°C
Measurement Precision	±15mm
Process Pressure	-0.1 ~ 0.1MPa
The signal Output	(4 ~ 20) mA/HART (Two wire/Four)RS485/Modbus
The Scene Display	Four digital LCD
Shell	Aluminum
Connection	Universal Flange
Protection Grade	IP67



QTRD905



Suitable for Medium	Solid particles, Powder
Explosion-proof Grade	Exia IIC T6 Ga
Measuring Range	30 meters
Frequency	26 GHz
Temperature:	-40°C ~ 250°C
Measurement Precision	±10mm
Process Pressure	-0.1 ~ 4.0MPa
The signal Output	(4 ~ 20) mA/HART (Two wire/Four)RS485/Modbus
The Scene Display	Four digital LCD
Shell	Aluminum
Connection	Thread, Flange
Protection Grade	IP67

QTRD906



Suitable for Medium	Hygienic liquid storage, corrosive container
Explosion-proof Grade	Exia IIC T6 Ga
Measuring Range	20 meters
Frequency	26 GHz
Temperature:	-40°C ~ 150°C
Measurement Precision	±3mm
Process Pressure	-0.1 ~ 0.1MPa
The signal Output	(4 ~ 20) mA/HART (Two wire/Four)RS485/Modbus
The Scene Display	Four digital LCD
Shell	Aluminum
Connection	Flange
Protection Grade	IP67



Product Model Selection

- QTRD 901

License

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

Antenna Type / Material / Temperature

F Sealing horn / PTEE / -40... 120 °C

Process Connection / Material

- G Thread G1½" A
- N Thread 1½" NPT
- A Flange DN50 /PP
- B Flange DN80 /PP
- C Flange DN100 /PP
- Y Special Custom-tailor

The Outlet Pipe Length of the Container

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

The Electronic Unit

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

Shell / Protection Grade

- L Aluminum / IP67
- G Stainless Steel 304 / IP67

Cable Line

- M M 20x1.5
- N ½" NPT

Field Display/The Programmer

- A Belt
- X Without



● **QTRD902**

License

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

Process Connection / Material

- G Thread G1½"A / Stainless Steel 304
- N Thread 1½" 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-tailor

Antenna Type / Material

- A Horn Antenna Φ46mm / Stainless Steel 304
- B Horn Antenna Φ76mm / Stainless Steel 304
- C Horn Antenna Φ96mm / Stainless Steel 304
- Y Special Custom-tailor

Seal Up / Process Temperature

- V Viton / (-40~150) °C
- K Kalrez / (-40~250) °C

The Electronic Unit

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

Shell / Protection Grade

- L Aluminum / IP67
- G Stainless Steel 304L/ IP67

Cable Line

- M M 20x1.5
- N ½" NPT

Field Display/The Programmer

- A Belt
- X Without



● QTRD903

License

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

Process Connection / Material

- G Thread G1½"A / Stainless Steel 304
- N Thread 1½" 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 / Cardan joint (Nickel plated carbon steel)
- K Flange DN100 / Cardan joint (Nickel plated carbon steel)
- T Flange DN125 / Cardan joint (Nickel plated carbon steel)
- Z Flange DN150 / Cardan joint (Nickel plated carbon steel)
- W Flange DN200 / Cardan joint (Nickel plated carbon steel)
- V Flange DN250 / Cardan joint (Nickel plated carbon steel)
- Y Special Custom-tailor

Antenna Type / Material

- B Horn Antenna Φ76mm / Stainless Steel 304
- C Horn Antenna Φ96mm / Stainless Steel 304
- D Horn Antenna Φ121mm / Stainless Steel 304

Seal Up / Process Temperature

- V Viton / (-40~150) °C
- K Kalrez / (-40~250) °C

The Electronic Unit

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

Shell / Protection Grade

- L Aluminum / IP67
- G Stainless Steel 304L/ IP67

Cable Line

- M M 20x1.5
- N ½" NPT

Field Display/The Programmer

- A Belt
- X Without



● QTRD904

License

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

Process Connection / Material

- G Thread G1½"A / Stainless Steel 304
- N Thread 1½" 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 / Cardan joint (Nickel plated carbon steel)
- K Flange DN100 / Cardan joint (Nickel plated carbon steel)
- T Flange DN125 / Cardan joint (Nickel plated carbon steel)
- Z Flange DN150 / Cardan joint (Nickel plated carbon steel)
- W Flange DN200 / Cardan joint (Nickel plated carbon steel)
- V Flange DN250 / Cardan joint (Nickel plated carbon steel)
- Y Special Custom-tailor

Antenna Type / Material

- B Horn Antenna Φ196mm / Stainless Steel 304
- C Horn Antenna Φ242mm / Stainless Steel 304

Seal Up / Process Temperature

- V Viton / (-40~150) °C
- K Kalrez / (-40~250) °C

The Electronic Unit

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

Shell / Protection Grade

- L Aluminum / IP67
- G Stainless Steel 304L/ IP67

Cable Line

- M M 20x1.5
- N ½" NPT

Field Display/The Programmer

- A Belt
- X Without



● **QTRD 905**

License

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

Process Connection / Material

- G Thread G1½"A / Stainless Steel 304
- N Thread 1½" 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 / Cardan joint (Nickel plated carbon steel)
- K Flange DN100 / Cardan joint (Nickel plated carbon steel)
- T Flange DN125 / Cardan joint (Nickel plated carbon steel)
- Z Flange DN150 / Cardan joint (Nickel plated carbon steel)
- W Flange DN200 / Cardan joint (Nickel plated carbon steel)
- V Flange DN250 / Cardan joint (Nickel plated carbon steel)
- Y Special Custom-tailor

Antenna Type / Material

- B Horn Antenna Φ76mm / Stainless Steel 304
- C Horn Antenna Φ96mm / Stainless Steel 304
- D Horn Antenna Φ121mm / Stainless Steel 304

Seal Up / Process Temperature

- V Viton / (-40~150) °C
- K Kalrez / (-40~250) °C

The Electronic Unit

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

Shell / Protection Grade

- L Aluminum / IP67
- G Stainless Steel 304L/ IP67

Cable Line

- M M 20x1.5
- N ½" NPT

Field Display/The Programmer

- A Belt
- X Without



● **QTRD906**

License

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

Process Connection / Material

- 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
- Y Special Custom-tailor

Antenna Type / Material

- B Horn Antenna Φ 46mm / Stainless Steel 304
- C Horn Antenna Φ 76mm / Stainless Steel 304
- D Horn Antenna Φ 96mm / Stainless Steel 304

Seal Up / Process Temperature

- V Viton / (-40~150) °C
- K Kalrez / (-40~250) °C

The Electronic Unit

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

Shell / Protection Grade

- L Aluminum / IP67
- G Stainless Steel 304L/ IP67

Cable Line

- M M 20x1.5
- N ½" NPT

Field Display/The Programmer

- A Belt
- X Without