

---

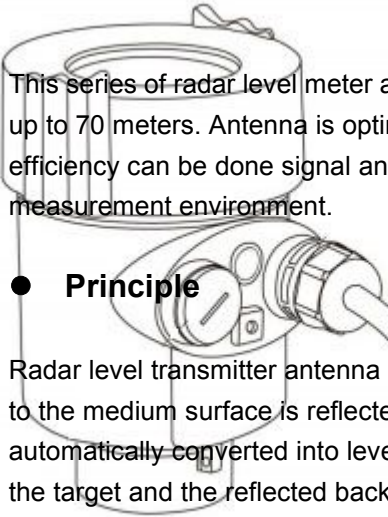
# 26G Radar Level Meter

## Catalogue





## Product Overview

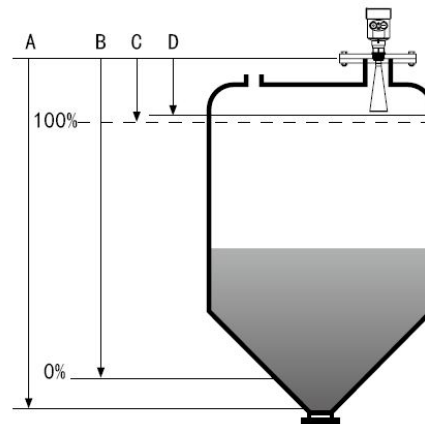


This series of radar level meter adopted 26G high frequency radar sensor, the maximum measurement range can reach up to 70 meters. Antenna is optimized further processing, the new fast microprocessors have higher speed and efficiency can be done signal analysis, the instrumentation can be used for reactor,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



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

### QTRD902



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



## QTRD903



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

## QTRD904



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



## QTRD905



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

## QTRD906



<b>Suitable for Medium</b>	Hygienic liquid storage, corrosive container
<b>Explosion-proof Grade</b>	Exia IIC T6 Ga
<b>Measuring Range</b>	20 meters
<b>Frequency</b>	26 GHz
<b>Temperature:</b>	-40°C ~ 150°C
<b>Measurement Precision</b>	±3mm
<b>Process Pressure</b>	-0.1 ~ 0.1MPa
<b>The signal Output</b>	(4 ~ 20) mA/HART (Two wire/Four)RS485/Modbus
<b>The Scene Display</b>	Four digital LCD
<b>Shell</b>	Aluminum
<b>Connection</b>	Flange
<b>Protection Grade</b>	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  $\Phi$ 46mm / Stainless Steel 304
- C Horn Antenna  $\Phi$ 76mm / Stainless Steel 304
- D Horn Antenna  $\Phi$ 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