

# HRRD730X Radar Level Transmitter

## Overview

The radar level transmitter antenna emits and narrows the microwave pulse. This pulse propagates in space at the speed of light. When it encounters the surface of the measured medium, part of its energy is reflected back and received by the same antenna. The time interval between the transmitted pulse and the received pulse is proportional to the distance from the antenna to the surface of the measured medium. Due to the extremely high propagation speed of electromagnetic waves, the time interval between the transmitted pulse and the received pulse is very small (on the order of nanoseconds). It is difficult to confirm. The 90X series 26G radar level gauge uses a special demodulation technology to accurately identify the transmitted pulse and The time interval of the pulse is received to further calculate the distance of the antenna from the surface of the measured medium.



**NYRD-806**



**NYRD-808**

## Features:



Measurement interval	About 1 second (depending on parameter settings)
Adjust the time	About 1 second (depending on parameter settings)
display resolution	1mm
Working storage and transportation temperature	(-40~100) °C
Process temperature (temperature of the antenna section)	(-40~250)°C
Pressure	Max. 4MPa
Shock tolerance	Mechanical vibration 10m/s <sup>2</sup> , (10~150)Hz

## Electrical connections

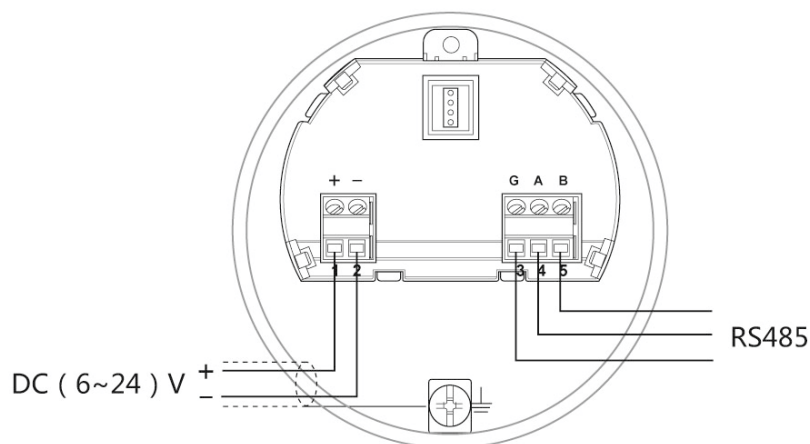
### Supply voltage

RS485/Modbus

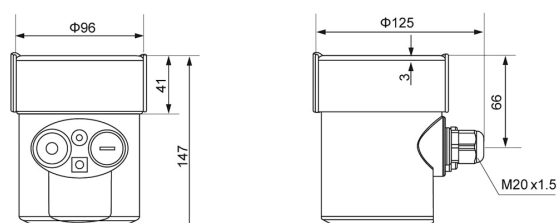
A separate shielded cable is used for each of the power supply and Modbus signal lines. See the technical data for the specific supply voltage range.

### Connection method

RS485/Modbus wiring diagram is as follows,



### Outline Construction:



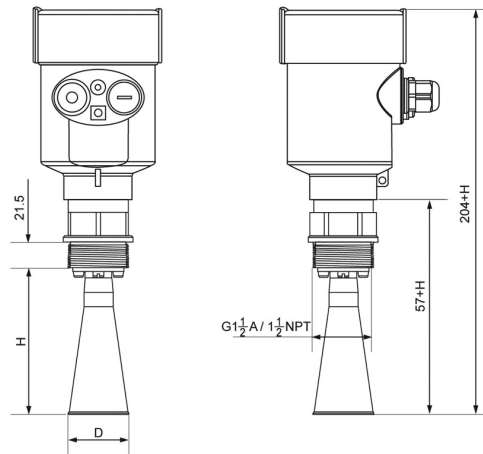
Unit: mm

Housing size:

physical dimension:

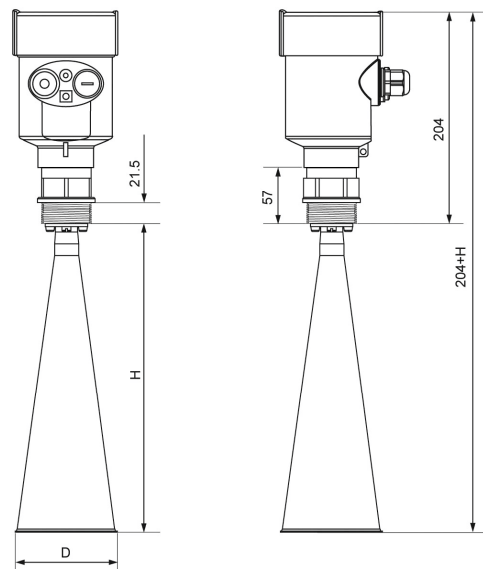
**NYRD-806**

法兰	喇叭口直径D	喇叭高度H
DN50	Φ46	140
DN80	Φ76	227
DN100	Φ96	288

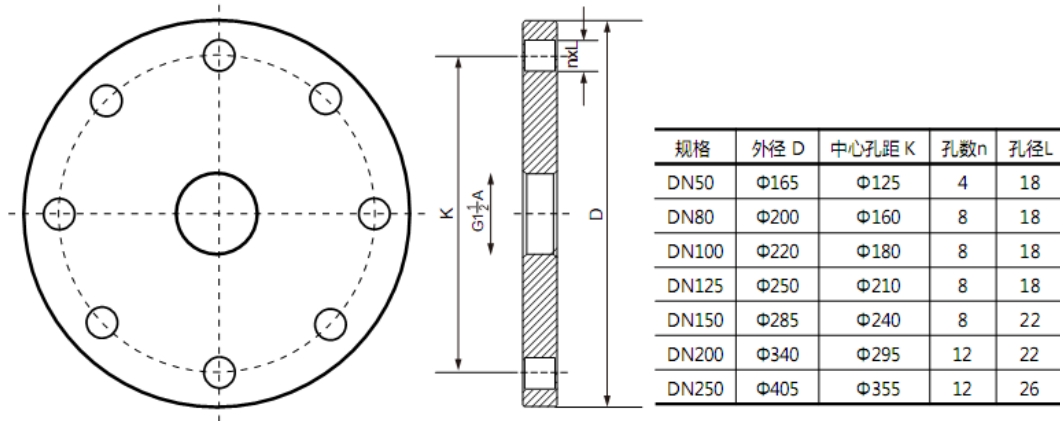


**NYRD-808**

法兰	喇叭口直径D	喇叭高度H
DN80	Φ76	227
DN100	Φ96	288
DN125	Φ121	620



Flange selection:



## Instrument order table

**Model: NYRD-806**

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### License

Standard type (non-explosion proof)

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### Process connection/material

G thread G1 1/2' ' A / stainless steel 304

N vertical bracket

M gantry bracket

Y special customization

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### Antenna type / material

A horn antenna Φ76mm/stainless steel 304

B horn antenna Φ96mm/stainless steel 304

Y special customization

### Seal / process temperature

V ordinary seal / (-40~150) ° C

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### Electronic unit

V RS485/Modbus/ four-wire system

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### Housing protection

L aluminum / IP67

G Plastic / IP65

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**Cable entry**

M M20 x 1.5

N ½" NPT

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**Live display/programming**

A with

X without

---

**Model: NYRD-808**

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**License**

P standard type (non-explosion proof)

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**Process connection/material**

G thread G1½" / A / stainless steel 304

N vertical bracket

M gantry bracket

Y special customization

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**Antenna type / material**

A horn antenna Φ96mm/stainless steel 304

B horn antenna Φ121mm/stainless steel 304

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**Seal / process temperature**

V ordinary seal / (-40~150) ° C

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**Electronic unit**

V RS485/Modbus/ four-wire system

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**Housing/protection rating**

L aluminum / IP67

G Plastic / IP65

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**Cable entry**

M M20 x 1.5

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**Live display/programming**

A A with

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