

## HCCK-61 model number



Application:	Measuring liquids, and dew on solid material, dust.
Measuring Range:	20meters
Process Connection:	Thread、Flange
Medium Temperature:	-40~120℃
Process Pressure:	Atmospheric pressure
Accuracy:	±5mm
Frequency Range:	26GHz
Explosion-proof Grade:	Exia II C T6 Ga
Protection Grade:	IP67
Signal Output:	4...20mA/HART(Two wire/FOUR wire) RS485/ HART Protocol

### Application area

- 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.

### Function

The sensor emits a continuous radar signal through the antenna. The emitted signal is reflected by the medium and received as an echo by the antenna. The frequency difference between the emitted and received signal is proportional to the distance and depends on the filling height. The determined filling height is converted into a respective output signal and

### Technical

The housings are available as single chamber or double chamber version in plastic, stainless steel or aluminium.

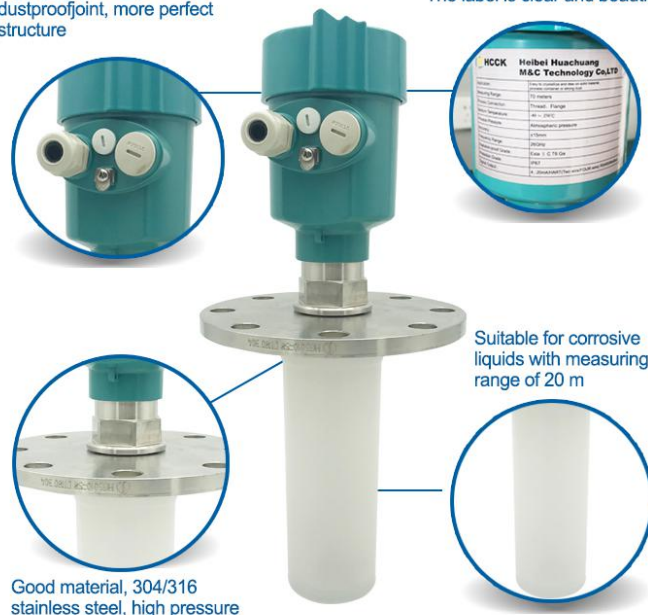
They are available with protection ratings up to IP 67.

### Electronics versions

4 ... 20 mA/HART in two and four-wire version.

High quality waterproof and dustproof joint, more perfect structure

The label is clear and beautiful



### Materials

the instrument are made of 316L, 304.

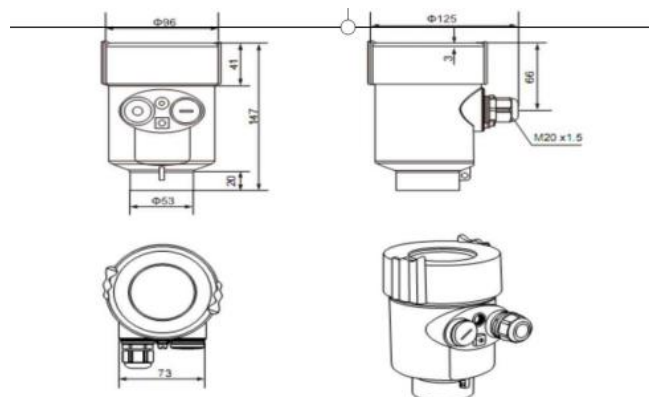
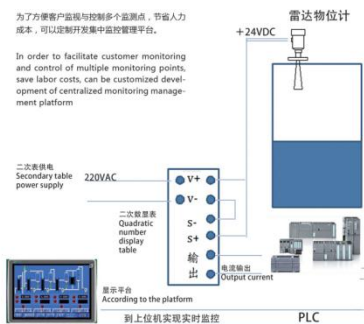
## Adjustment

### Adjustment on the measurement loop

Control system

为了方便客户监视与控制多个监测点，节省人力成本，可以定制开发集中监控管理平台。

In order to facilitate customer monitoring and control of multiple monitoring points, save labor costs, can be customized development of centralized monitoring management platform



## Tank installation

L in the signal beam, avoid the following installations (1) : e.g. limit switch, temperature sensor, etc.

L symmetrical devices (2), such as vacuum ring heating coils, baffles, etc.

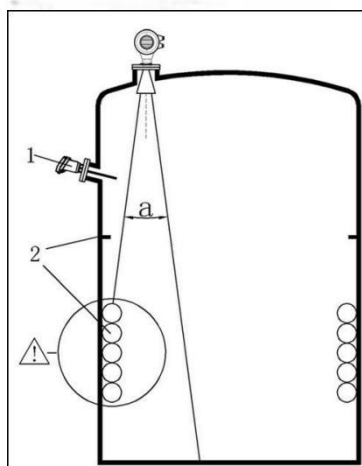
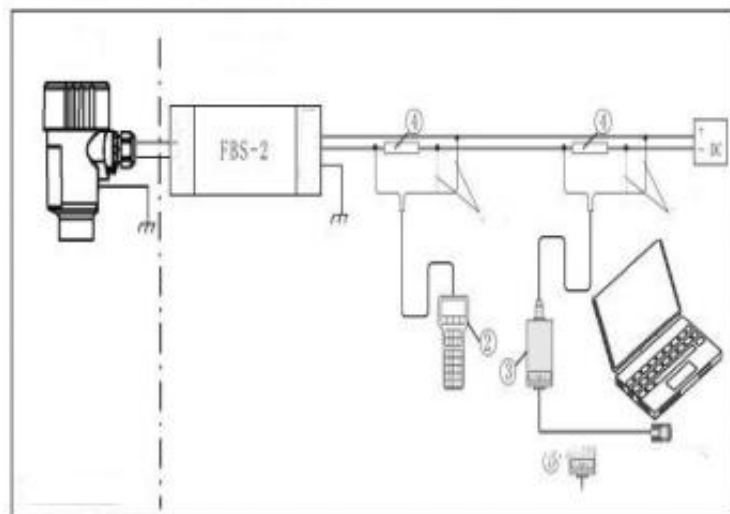
If there are (1) (2) interfering objects in the tank, the waveguide tube shall be used for measurement.

### Best installation option

L antenna size: the larger the antenna is, the smaller the beam Angle is, and the weaker the interference echo will be.

L antenna adjustment: adjust the antenna to the best measuring position.

L waveguide tube: waveguide tube to avoid interference with echo.







### monitoring& query :



### Application (mobile terminal) :



### WeChat alarm :



# Qualification



## QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No: NSI19Q10156R0S

We hereby certify that the organization:

**Hebei Huachuang M&C Technology Co., Ltd.**

Unified social credit code:911302823081376602

is in conformity with:Quality Management System Standard

GB/T19001-2016/ISO9001:2015

The certificate is valid to the following product(s)/service:

**sales of radar level sensor.**

Registration Address:1st and 2nd floor, South of 18# Business Entrepreneurship Center,  
No.26 Yingbin Road, Fengnan District, Tangshan City.

Audit Address:Building 18, Tongda Building Materials Expo City, Fengnan District,  
Tangshan City, Hebei Province, China

Date of Issue : 22-02-2019

Date of Expiry: 21-02-2022



The Effectiveness of the Certificate is Subject to QR Code in the Right.

Meanwhile, You Can Search the Search the CNCA Website : [www.cnca.gov.cn](http://www.cnca.gov.cn)

or Website of Certification Body : [www.ccnsi.cn](http://www.ccnsi.cn)




*Jia Yongjiang*



**National Standard Integration (Beijing) Certification Co.,Ltd.**

Address: Room 601, Building 6, Kaixuan Cheng, No.170, Beiyuan Road, Chaoyang District,  
Beijing, P.R.China (100101)

## CE certificate:



# CERTIFICATE

of Conformity

Reference No.: MOS18042664961S

**Applicant** : Hebei Huachuang M&C Technology Co.,LTd

**Address** : 13-7 Jinsheng Fengnan Tangshan Hebei China

**Product** : radar level meter

**Model(s)** : HCDAR-65



**Rating(s)** : 24V/4-20MA

The submitted products have been tested by us with the listed standards and found in compliance with the following standard:  
The LVD Directive 2014/35/EU  
EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013

The tests were performed in normal operation mode. The test results apply only to the particular sample tested and to the specific tests carried out. This certificate applies specifically to the sample investigated in our test reference number only.

The CE markings as shown below can be affixed on the product after preparation of necessary technical documentation.

Other relevant Directives have to be observed.



Mosen Detection Technology Co., Ltd.  
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TEL: 020-66623300      web: [www.mosen-cert.com](http://www.mosen-cert.com)