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## Instrument sensor series/KH.WLX-1 radar water level meter



### Product Introduction

KH.WLX-1 is a high-precision, low-power, and widely applicable non-contact radar water level meter. The radar adopts FMCW mode. It is small in size and compact in structure. It has the advantages of high precision, low power consumption, strong anti-interference ability, easy installation, and maintenance-free.

### Features

Long service life: industrial-grade design, anti-condensation, waterproof, super lightning protection design, ultra-wide operating temperature, suitable for various field environments;

FMCW mode: non-contact measurement, not affected by climate, sediment and floating objects, easy to maintain and simple to operate.

Energy saving and consumption reduction: Combination of measurement operation and sleep mode to save energy and reduce consumption;

Measurement time: short measurement time (fastest response time 100ms);

Test report: in compliance with GB/T 15966-2017 "Basic Parameters and General Technical Conditions for Hydrological Instruments" .

### Application scenarios

Applicable to water level monitoring in natural water bodies such as rivers, lakes, tides, and reservoirs; urban flood or waterlogging monitoring during the flood season, such as low-lying land and drainage outlet monitoring; auxiliary water treatment operations, such as urban water

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supply and sewage monitoring.

### Technical parameters

Distance measurement range: 0.15~40m

Measuring accuracy:  $\pm 2\text{mm}$

Resolution: 1mm

Startup time: 100ms fastest

Working voltage: 9~24V, typical value 12V

Working current: 20mA

Output: RS485 communication mode, default baud rate 9600, ASCII/Modbus protocol can be switched freely

Transmitting frequency: 80GHz, 60GHz, 24GHz optional. Bandwidth 4G

Output power: 13dBm~20dBm

Beam width: 14° horizontally, 10° vertically

Working temperature:  $-45^{\circ}\text{C}\sim+85^{\circ}\text{C}$

Protection level: IP68