

File name	LD7901B Water level gauge product specification	File Version	V1.0
Document number	HLK2022061201	Total Pages	Total 4 pages

## LD7901B water level gauge product specification

Admin	Admin	Date	2022-06-12
Re-check		Date	
Standardize		Date	
Approve		Date	



## 1. Product introduction

Water level meter product is based on 79G millimeter wave detection principle of independent research and development of a water level detection sensor, its high measurement accuracy, low power consumption, high sensitivity, stable performance, better adapted to the detection of water level.

Product main advantage:

- The product adopts narrow beam design, which has strong anti-interference ability and long distance ranging
- 79G millimeter wave high band radar, can reach millimeter ranging accuracy
- The product is highly integrated and contains a digital signal processor and controller to realize advanced radar digital signal processing algorithms
- The product is easy to connect, easy to use and integrate, and supports serial protocol connection



### 3. Product Parameter

<b>Operating frequency</b>	79GHz ~ 81GHz
<b>Transmitting power</b>	12dBm
<b>Modulation system</b>	FMCW
<b>Operating temperature</b>	-20°C ~ +80°C
<b>EIRP parameter</b>	19dBm
<b>Distance range</b>	0.15m ~ 15m
<b>Range accuracy</b>	1mm (Theoretical precision)
<b>Horizontal range</b>	8°
<b>Vertical range</b>	7°
<b>Acquisition update rate</b>	10Hz (Can configure)
<b>Average Power consumption</b>	0.011W (depends on the sampling period)
<b>Interface</b>	URAT/ High and low level
<b>Dimension</b>	31.6mm * 51.6mm *2.2mm
<b>Power supply range</b>	3.3V