

H1600 Radar Level Meter

The H1600 Radar Level Meter uses high-frequency microwave radar technology to obtain the distance and orientation from the water surface to the emission point by transmitting and receiving electromagnetic waves. It has a built-in water surface fluctuation filtering algorithm, featuring high precision, low power consumption and small size. It can connect to RTU/PLC via RS485, support wireless transmission in wiring-difficult environments, and form an all-weather water level monitoring system.

Core Parameters

Water Level Range	10m/30m/45m/80m
Resolution	1mm/3mm
Communication Interface	RS485
Communication Protocol	Modbus-RTU
Operating Current	20mA@12VDC
Operating Voltage	12V DC
Operating Temperature	-30~+70°C
Product Size	56mm×56mm×80mm

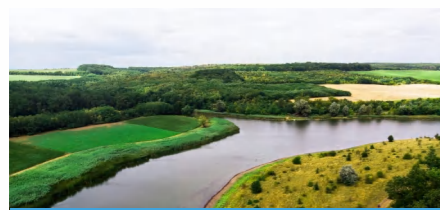
Application Scenarios



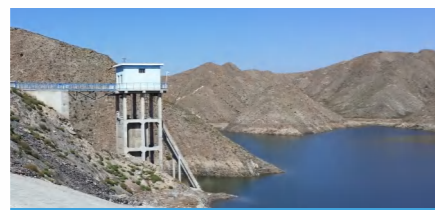
Urban Waterlogging and Flood Control Monitoring



River Water Level Monitoring



Irrigation Area Water Measurement Monitoring



Reservoir Water Level Monitoring



High-Precision Measurement

Based on high-frequency microwave radar technology, equipped with a built-in microarray radar antenna, adopting a fluctuating water surface measurement model and high-precision signal processing algorithm



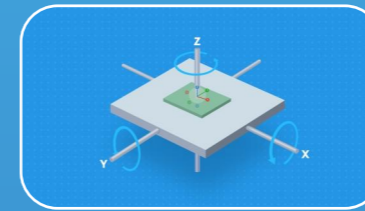
Non-Contact Measurement

Less affected by temperature gradient, pressure, air density, wind or other meteorological and environmental conditions, as well as pollution corrosion, sediment, etc.



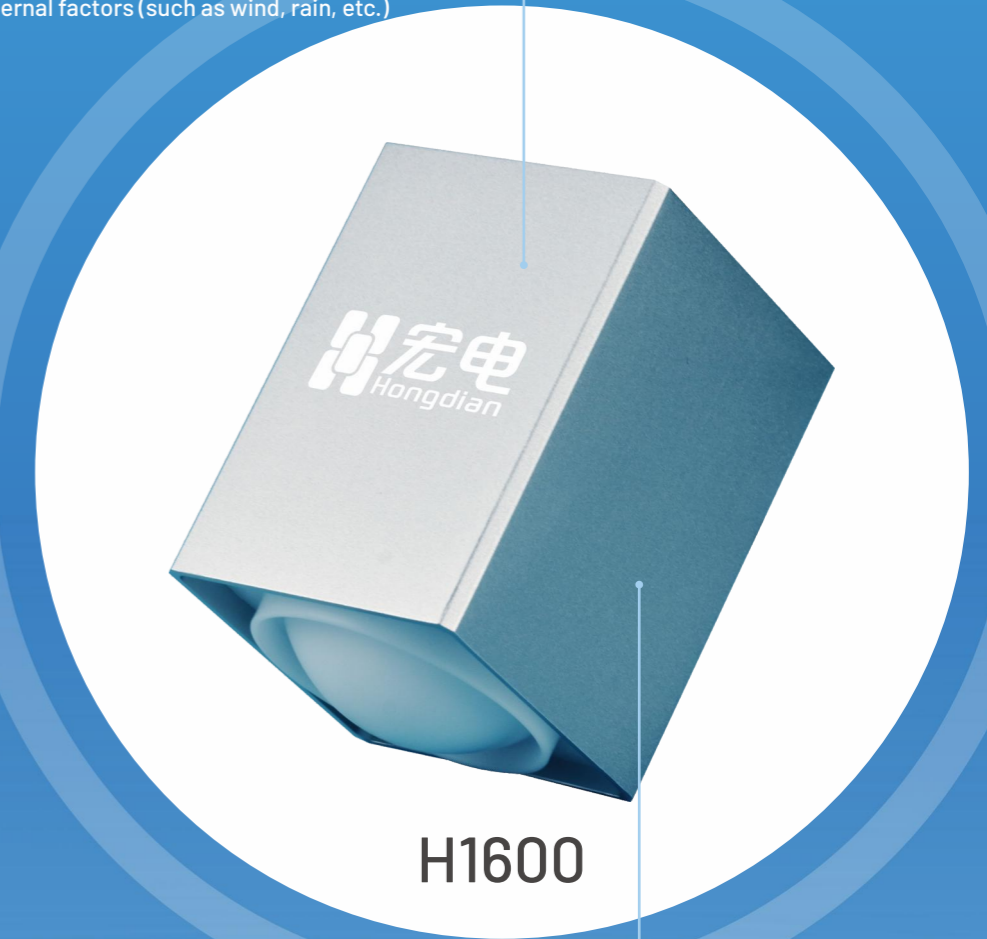
Low Power Consumption Design

Advanced power management strategy and scientific working mode switching



Attitude Sensor

Built-in attitude sensor combined with debounce algorithm, which can maintain stable measurement even when the product shakes slightly due to external factors (such as wind, rain, etc.)



H1600



High Protection Level

IP68/IPX9 submersible protection level, with lightning protection and reverse connection protection design, suitable for various field environments