

DATASHEET

Level

Portable Ultrasonic Water Depth Detector

Model PWL-UH100



Description

PWL-UH100 Ultrasonic water depth detector is a water depth measuring instrument for measuring reservoirs, lakes, rivers, shallow seas and other waters. To place ultrasonic transducer on the water surface or at a certain position in the water, current water depth will be automatically calculated by the instrument using the propagation principle of ultrasonic waves in the water.

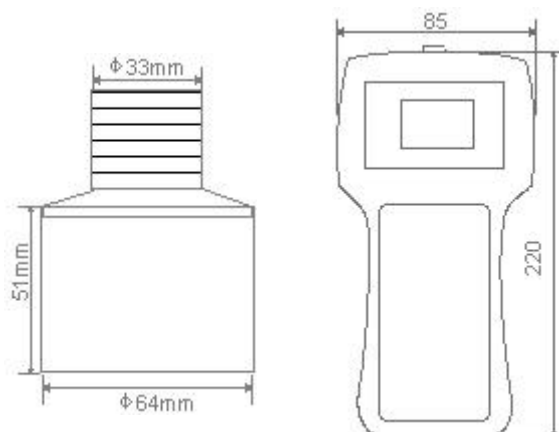
This device adopts international advanced technology and has perfect water depth measurement function, control function, data transmission function and human-computer communication function. This machine integrates ultrasonic transceiver sensor, servo circuit, temperature compensation sensor and compensation circuit unit, display, control signal output and serial data or analog output unit (optional) as a water depth measuring instrument.

It has the characteristics of low maintenance, high reliability, long life, easy use, simple operation and accurate measurement. Therefore, it is widely used in hydrological measurement, hydropower plants, reservoirs, shallow seas, lakes, river surveys, and environmental water monitoring. It is an ideal water depth measuring instrument.

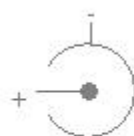
Specifications

Model		PWL-UH100
Measuring Range		50m, 100m, 200m, 300m
Accuracy		±0.5%FS (at 20℃ and calm water surface)
Blind Area		≤800~1200mm according to range
Beam Angle		18° ±2°
Signal Output		4-20mA + RS485 Modbus RTU
Transmitter	Display	4 bits LCD Backlight display
	Resolution	d=1mm/1cm (user to define)
	Keyboard	Five-digit touch buttons
	Temperature	Working Temp.: 0~50℃
		Storage Temp.: -20~70℃
	Humidity	Working at ≤80% RH no condensation; Storage at ≤70% RH no condensation
	Dimensions	235 x 115 x70 mm
Sensor	Working Voltage	Built-in DC12V rechargeable battery Intermittent standby time is about 6 hours
	Medias	Fresh water, sea water (Should tell when order)
	Working Temp.	0~40℃
	Draft Depth	≥500mm
	Cable Length	10m typical, can order 20m, 30m, 50m
Water-proof		IP68
Weight		Net weight ≤5kgs, gross weight ≤ 6kgs(Standard)
Packing Dimensions		37 x 25 x 37cm
Installation Method		Transmitter by handheld; Sensor by 1" thread
Charger		Input voltage: 110~240VAC 50/60Hz Output voltage: 12.6VDC 350mA

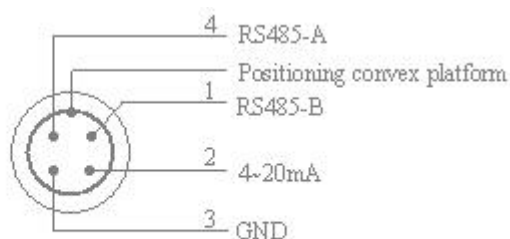
Dimensions



Electrical Connection



◆ Charging port



◆ Wiring definition for signal output

Product Parts

Part Name	Quantity
Handheld transmitter (Built in lithium battery)	1 pc
Sensor (Including 10 meters cable)	1 pc
Charger	1 pc
Converter of RS485 to USB (Including 1m cable)	1 pc
30cm length steel connecting rod for sensor	2 pcs
Aluminum alloy portable protective box	1 pc



Application

