Water Level Monitor/ Flood Detector

Specifications

Shenzhen WiiHey Technology Co., Ltd

INTRODUCTION

WiiHey Water Level Monitor/Flood Detector, using leading capacitive sensor to detect water surface position, built-in WiiHey Bore OS IoT operating system and GSM/GPRS communication module. When the water reaches the specified position, the system detects a change in the sensor signal, after filtering and analysis, it will send the message to WiiHey IoT server.

WiiHey Water Level Monitor/Flood Detector applies to : tap water, domestic water, river water, waste water, weak acid and alkaline water, water treatment chemicals, textile printing and dyeing water, industrial wastewater, etc. . Special models can also be used in ultrapure water, reverse osmosis water or distillation.

MAIN FEATURES

- Stain resistance, anti-tilt, weak acid and alkali salt, able to work in the influence of magnetic field, metal body, water pressure change and raid of light, no dead zone ;
- Without any mechanical parts on the outside, Not afraid of the influence of floating objects ;
- With real-time clock function, it can perform periodic self-test reporting .
- Support for setting reporting period .
- Support to report the battery voltage .
- Support the remote configuration.

TECHNICAL SPECIFICATION:

Item		Content
Model No.		WiiWLA-G
Battery	Input Voltage Range	3.6V DC
	Lowest working voltage	2.8V DC
	Battery capacity	>6000mAH
Power consumption	Sleep current	≤ 15 uA
	Maximum power consumption	≤ 2W@ 3.6V
	Working times	≥3 years (good network, 1 self-test per day)
Communication	Moible Network	GSM/GPRS
Measurement	Detection cycle	30 seconds to 1 hour can be set
	Battery voltage	Measuring range is 2.8-3.6V, error is ±0.2V
Number of alarms	Configurable	1-10 times or continuous alarm untill manual release
Indicator	LED	Inside the device (Represent the status of running or networking)
Appearance and dimensions	DIM.	Sensor O.D： φ 20X150mm (Cable to sensor 0.5m-4m, can be customized)
	Antenna	Built-in FPC antenna mode
	Material	PC
	Pressure resistance	Within 20kg/cm2
	Assembly	Bolting
Safty	Water-Proof	IP68

Table 1 technical indicator requirements table

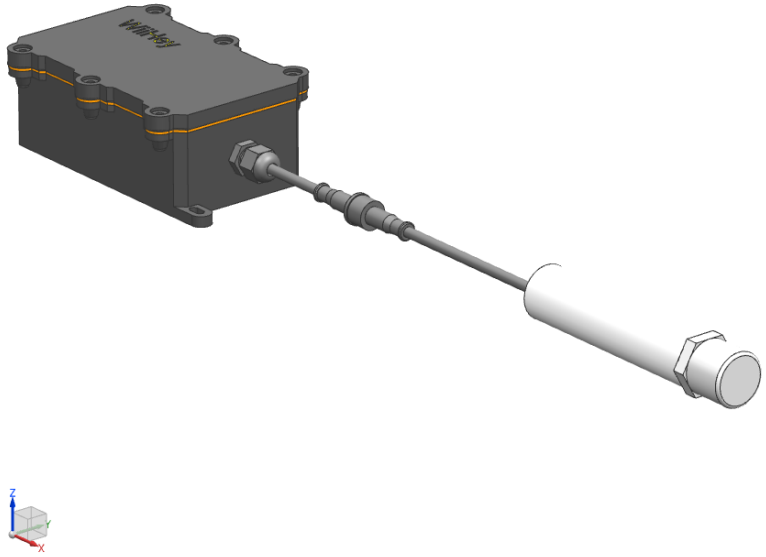
ENVIRONMENTAL CONDITIONS:

Item	Detailed Parameters
Normal operating temperature (˚C)	-40˚C ~ 85˚C
Storage Temperature (˚C)	-45 ˚ C ~ 90 ˚ C
Relative Humidity	5 % ~ 100%
Atmospheric Pressure kPa	63.0～106.0 (below 4000m altitude)

SAFETY

Communication response time	< 60s
MTBF	≥ 30,000 hours
Alarm data false positive rate	≤ 0.1%
Alarm data false negative rate	≤ 0.1%
Electromagnetic compatibility	Comply with IEC 61000-4-2 , 3 , 4 , 5
Normal insulation resistance	≥ 100M Ω
Insulation resistance under wet heat	≥ 2M Ω
Leakage current	< 5mA

APPEARANCE

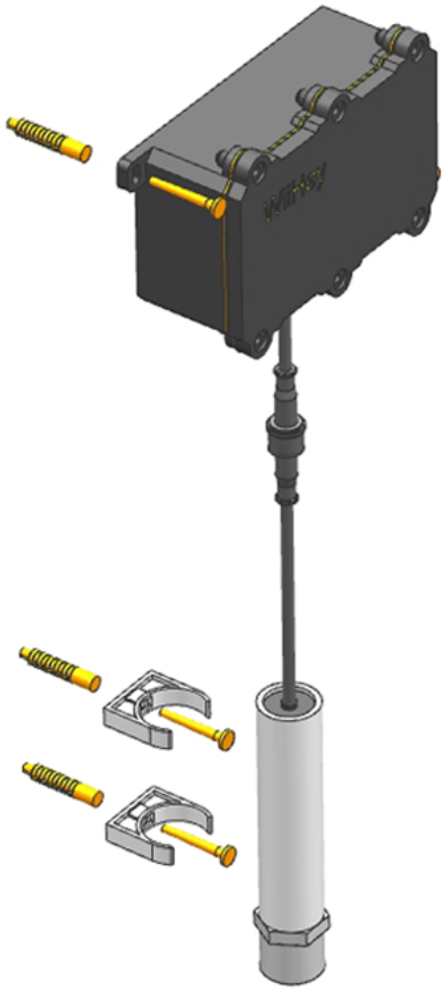


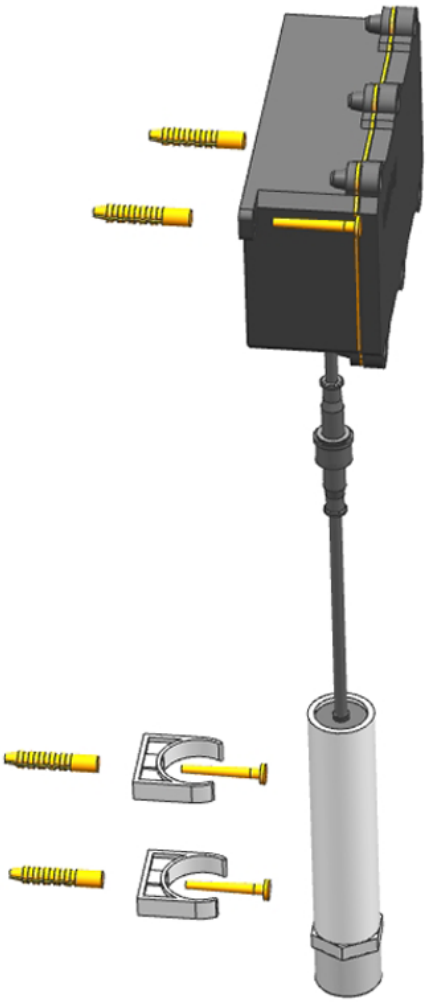
INSTALLATION

1) Assembly method : The Detetor can be installed freely, such as horizontal, vertical, oblique or other irregular and convenient method.
2) Fixed method: The easiest way is that hang the Detector from upside.
   if it required to be fixed: it support to used the threaded interface (DN20, ie 4 threaded interface) or used the pipe clamp

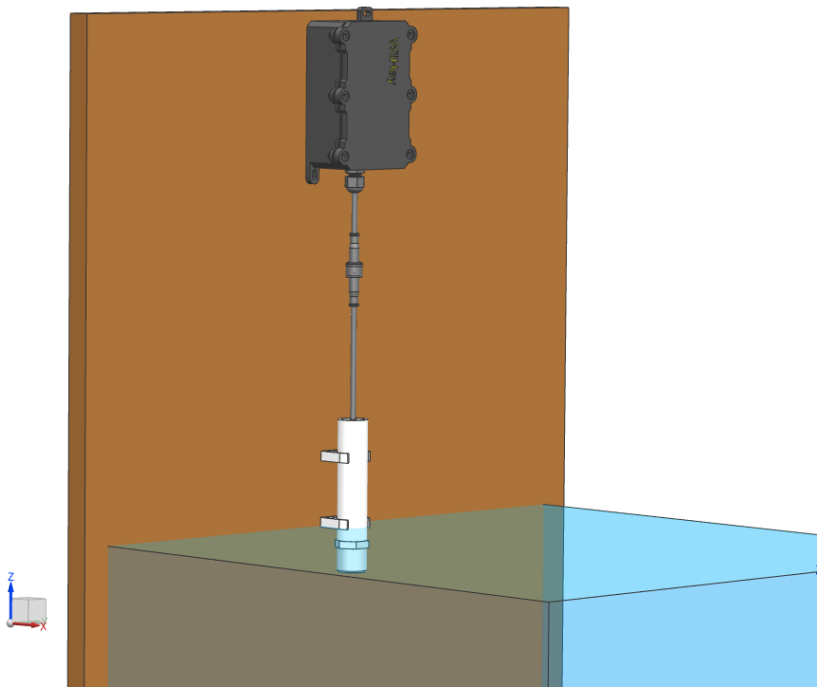
*Note : The Detetor should not be too close to the wall, Keep a certain distance from the wall, To prevent sundries form getting stuck .

Please refer to the diagram below:

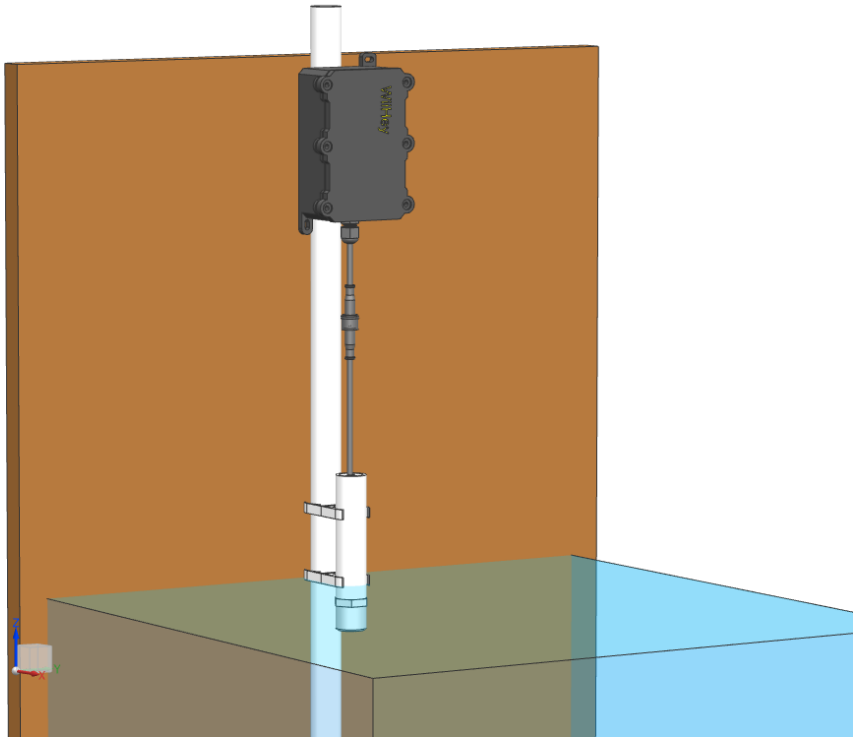




Use the wall pipe clamp directly on the wall as below



Use existing water pipes to secure with buckles as below:



ON-SITE PICTURE: