

TECHNOLOGY

**HOLYKELL®**

# **H2600 LoRa Series**

# **WIRELESS**

• DATASHEET •

1. Pressure Measurement   2. Level Measurement   3. Temperature Measurement  
4. Flow Measurement   5. Display & Control Instruments  
**6. Wireless Monitoring System**   7. Velocity Measurement

# H2600 Series

## LoRa Wireless IoT Sensors

### Applications

- Oil and gas production
- Water treatment
- Chemical processing
- Grain warehouse
- Pipeline network
- Smart Cities and Agriculture
- Process control

### Features

- Up to 5.8km communication distance
- High accuracy up to 0.25%F.S
- Wide measuring range
- Low power consumption(0.432W) for longer battery life
- Chargeable battery with separate battery compartment
- IP68 full sealed and explosive-proof design
- Active crystal oscillator LoRa module adopted, with more stable signal
- GPS positioning and historical tracking function
- Bluetooth function optional
- Free cloud platform for wireless data monitoring & analysis

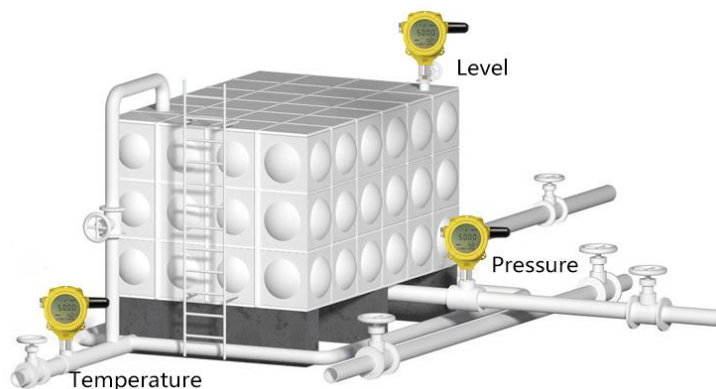


### Profiles

H2600 series wireless sensor, including H2601 pressure sensor, H2603 level sensor, H2602 temperature sensor, are smart instrument designed for wireless communication in various industrial settings and meet the explosion-proof standard. They feature a dual-line LCD, with the ability to switch between three different data displays. Powered by a lithium battery, they offer a reliable power source with a non-replaceable battery capacity of 38Ah or a rechargeable option with 13Ah, the power consumption is low, suitable for applications with power challenge.

The chip operates under constant voltage and utilizes an active crystal oscillator LORA module, which ensures a stable wireless signal. With 15Mbyte storage capacity, it allows for the storage of up to 655,360 data entries. With a communication range of up to 5.8 km, it excels in scenarios where distance is a challenge. H2600 series comes with Bluetooth functionality for easy pairing with other devices and positioning feature for precise location tracking.

Relying on LORA network, it enables wireless transmission of field instrument data to cloud platform & APP where real-time & historical data can be accessed, offering flexibility in data management.

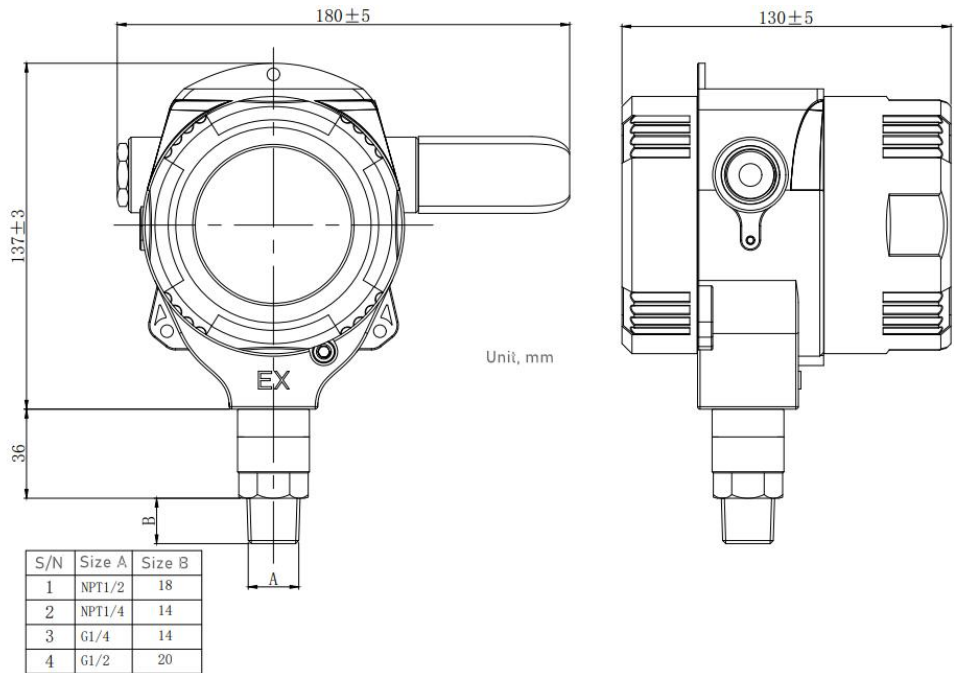


### Specifications

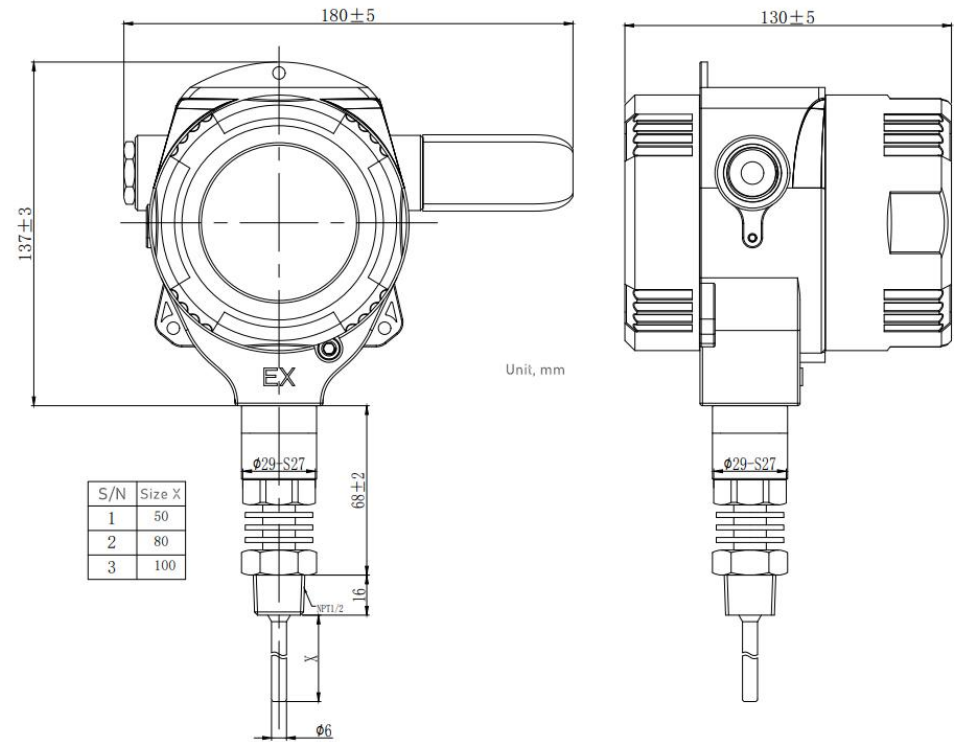
Items	H2601 Pressure sensor; H2602 Temperature sensor; H2603 Level sensor			
Display	Segment LCD Screen			
Measurement Accuracy		<b>H2601</b>	<b>H2602</b>	<b>H2603</b>
	<b>Typical</b>	0.5% F.S	0.5% F.S	0.5% F.S
	<b>Customized</b>	0.25%F.S,0.1% F.S	0.25% F.S	0.25% F.S, 0.1% F.S
Connection	<b>Typical</b>	G1/2 male, G1/4 male, 1/2"NPT male,1/4"NPT male	G1/2 male, 1/2"NPT male	M32X1.5
Measuring Range	<b>Typical</b>	0-0.01...100Mpa optional	-50~250℃ optional	0-1m...100m optional
External Power Supply Voltage	5-36VDC			
Communication	LORA			
Operating Power Consumption	<0.432W			
Standby Current	Without Bluetooth: 35ua; with Bluetooth: 120ua			
Operating Temperature	-30℃~70℃ (media does not crystallize)			
IP Rating	IP68			
Explosion-proof Rating	Exd II BT6			
Battery Capacity	Non-rechargeable Battery: 3.6V, 38Ah Rechargeable Battery: 3.6V, 13Ah			
Battery Life	Up to 5 years			
Antenna	External antenna			
Storage Capacity	15Mbyte, capable of storing approximately 655,360 data records			
Data Collection Cycle	Range: 1~172,799 seconds(i.e, 2 days), Default: 1 second			
Data Reporting Cycle	Range: 1~16,777,215 seconds(i.e, 6.4727 months),, Default: 60 seconds			
	Note: There may be slight differences from standard time in the reporting cycle interval. If the current scheduled reporting fails, it will be resent during the next scheduled reporting			
Configuration Method	Local USB, Bluetooth or remote configuration			
Serial Port Parameters	Baud Rate:115200; Data Bits: 8; Stop Bits: 1; Parity: NONE			

**Dimensions and Drawing**

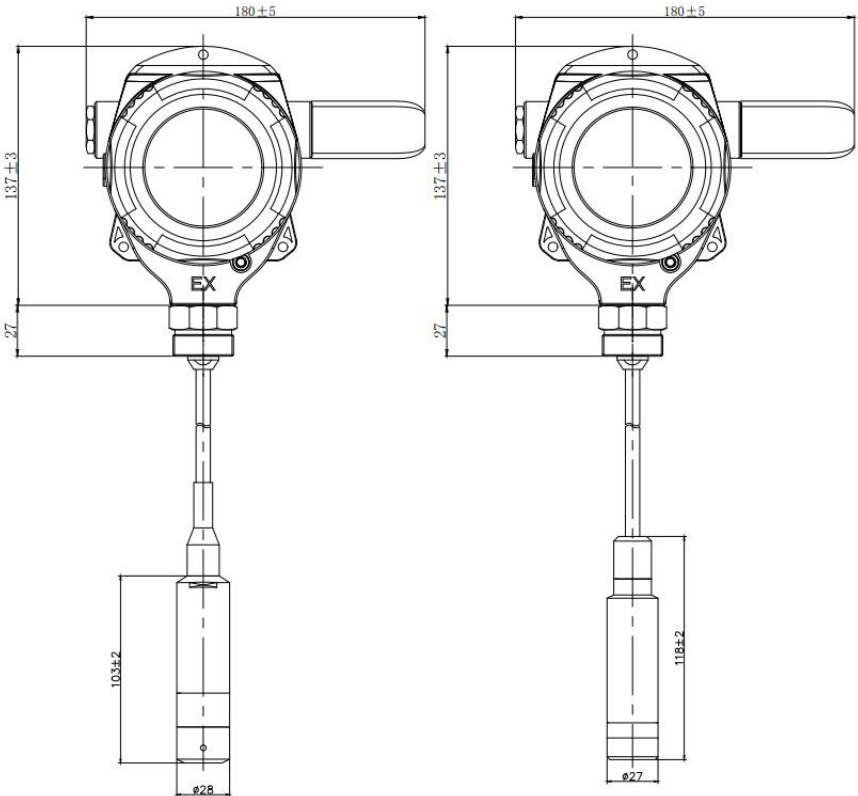
Unit, mm



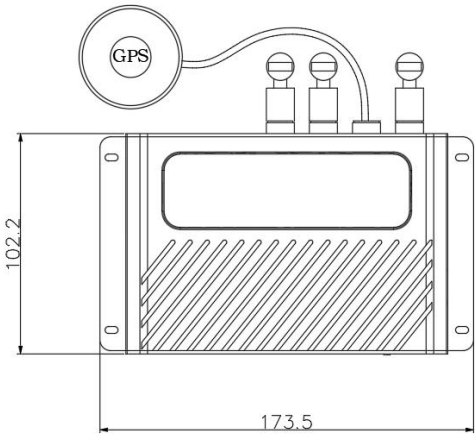
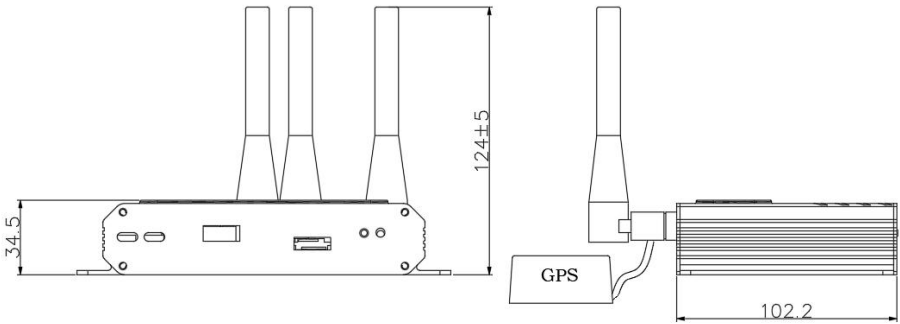
Wireless Pressure Sensor H2601



Wireless Temperature Sensor H2602

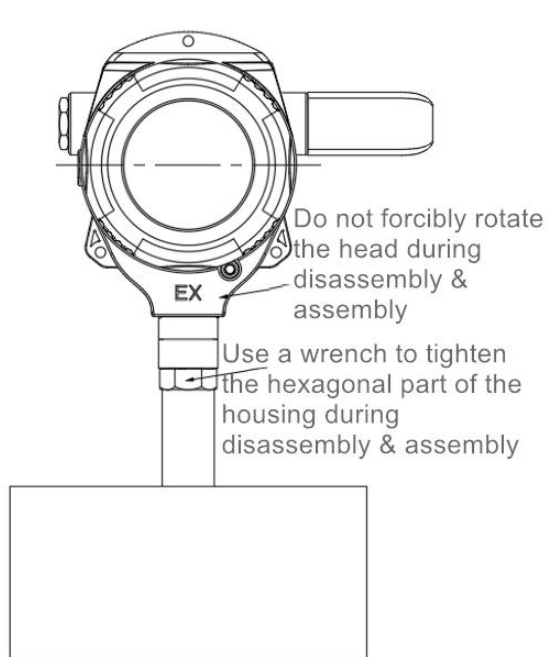


Wireless Level Sensor H2603

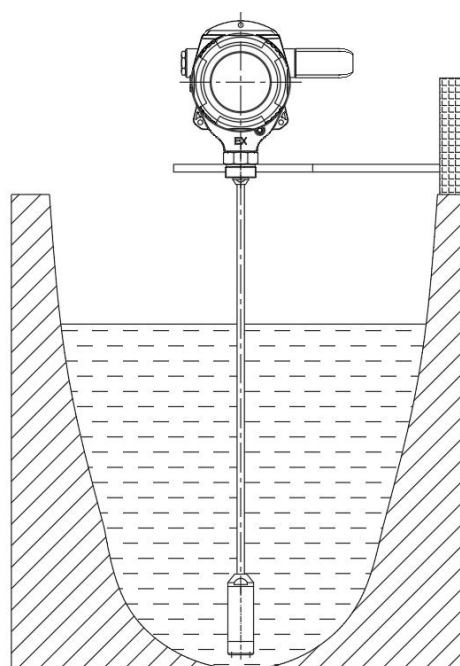


HW500 LoRa Gateway

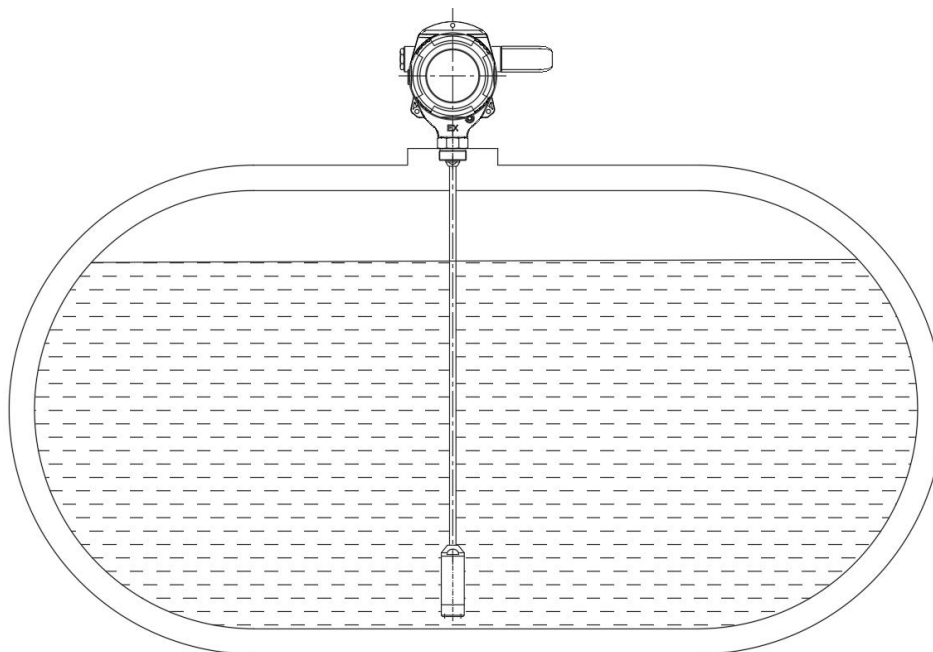
### How to Install



Installed on pipeline



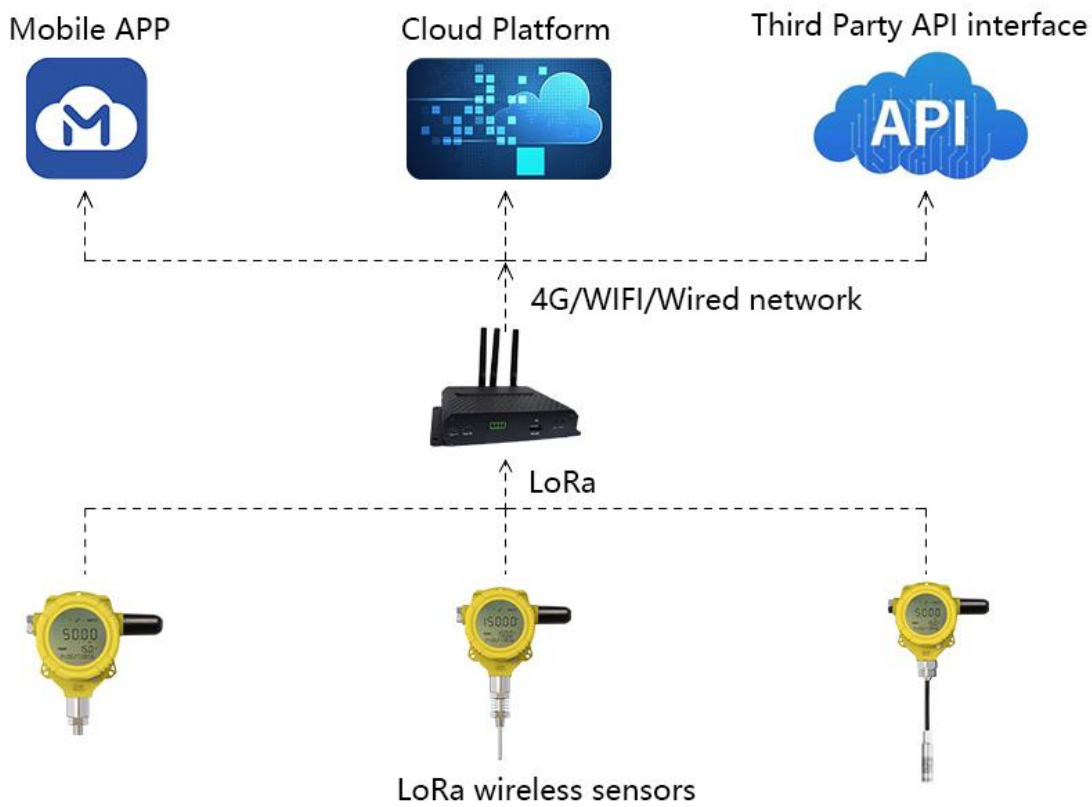
Installed above rivers



Installed in tanks



**Topology**



**Application Function**

**Application Software--SmartP**

**Free installation**  
(from Apple & Mi store/  
Google Play/Sent package)

**Real-time monitoring**  
Value/power/signal/video/  
SIM data/curve...

**Alarm System**  
Alarm by SMS/email,  
APP setting

**Google Map**  
Device positioning,  
historical track

**Device Management**  
Basic/network/device parameters  
by Bluetooth connection

### How to Order

**Smart Sensor Model Selection Table**

Model	Communication	Type	Accuracy	Pressure Type	Measuring Range	Process connection
-------	---------------	------	----------	---------------	-----------------	--------------------

**Smart pressure sensor**

H2601	LR=LoRa	EP=Explosion-proof pressure sensor	1=0.5%F.S 2=0.25%F.S 3=0.1%F.S(By customized)	G=Gauge A=Absolute	0-0.01...100Mpa Others by customized	3=1/4"NPT male 6=G1/4 male 9=G1/2 male 10=1/2"NPT male X=by customized
H2601	LR	EP	1	G	100	3

Model	Communication	Type	Accuracy	Pressure Type	Measuring Range	Process connection
-------	---------------	------	----------	---------------	-----------------	--------------------

**Smart temperature sensor**

H2602	LR=LoRa	ET=Explosion-proof temp. sensor	1=0.5%F.S 2=0.25%F.S		-50~250℃ Others by customized	9=G1/2 male 10=1/2"NPT male
H2602	LR	ET	1		100	9

Model	Communication	Type	Accuracy	Pressure Type	Measuring Range	Process connection
-------	---------------	------	----------	---------------	-----------------	--------------------

**Smart level sensor**

H2603	LR=LoRa	EL=Explosion-proof level sensor	1=0.5%F.S 2=0.25%F.S 3=0.1%F.S(By customized)	G=Gauge	0-1m...100m Others by customized	43=M32X1.5
H2603	LR	EL	1	G	50	43

Example:

H2603-LR--EL-1-G-50-43

H2603, LoRa communication, explosion-proof level sensor, accuracy 0.5%F.S, gauge pressure, measuring range 50m, process connection M32X1.5