

RU Series Wireless Relays

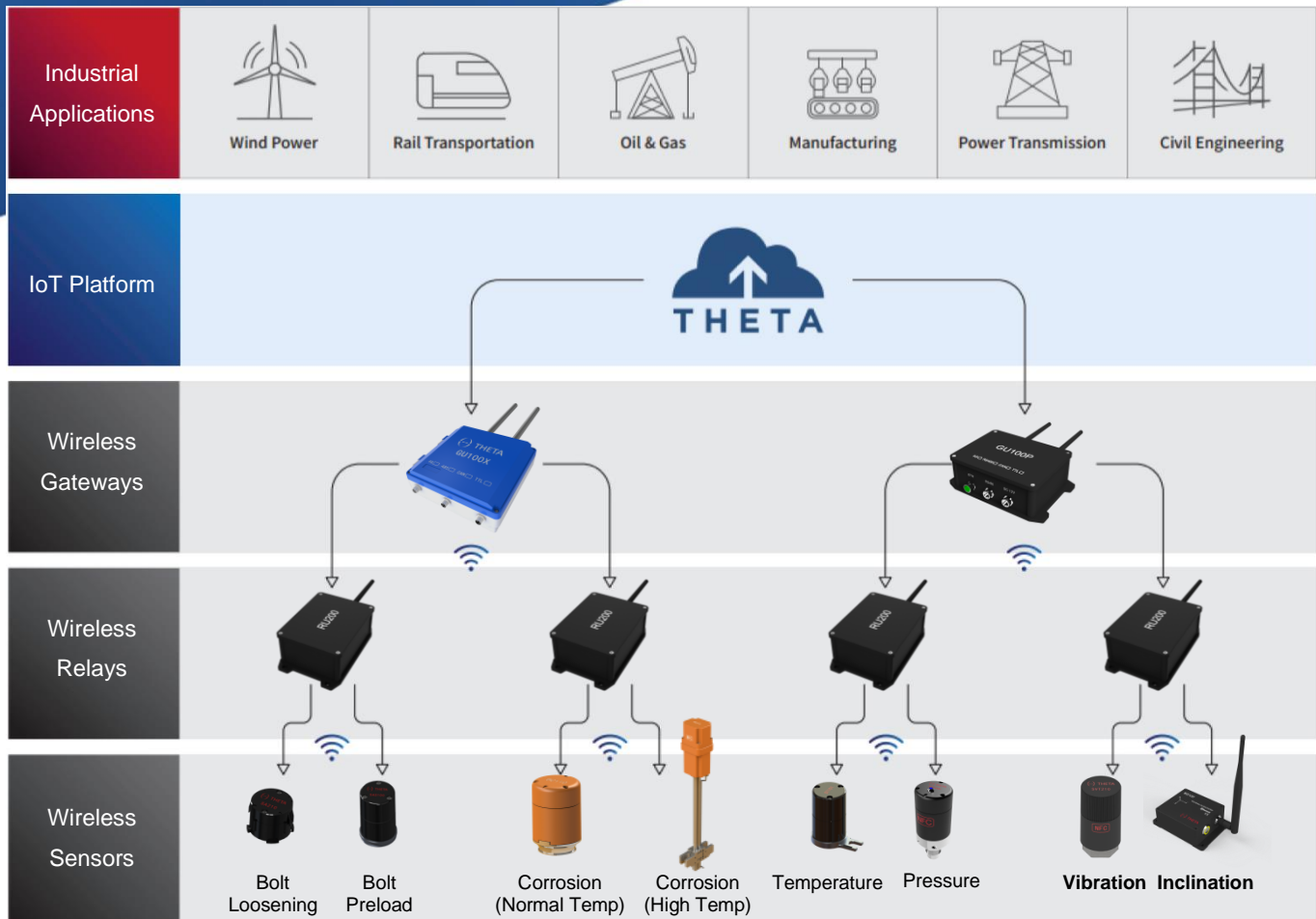


The RU Series Wireless Relays are industrial-grade devices designed to extend the range and improve the reliability of Bluetooth wireless sensor networks. These relays serve as communication nodes, receiving data from sensor nodes and forwarding it to gateways or other relay nodes. For downlink, they transmit data from gateways to destination sensors or additional relay nodes.

When used in conjunction with the GU Series Gateway, the RU Series Wireless Relays significantly enhance the coverage range of the wireless sensor network. By strategically placing the relay nodes, the network can effectively address long distances or weak signals between sensor nodes, ensuring reliable data transmission and stable network performance.

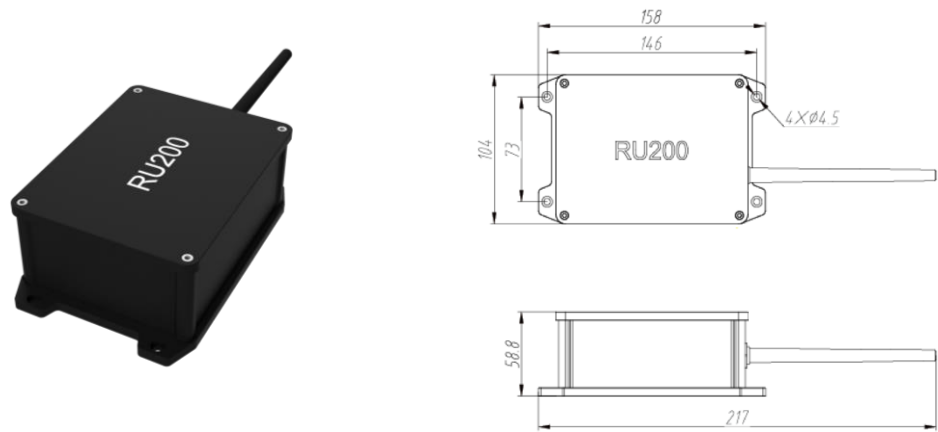
The relays are designed for low power consumption and can be powered by batteries, with a battery life of 5 years or more under normal usage. This enables cable-free installation, simplifying the deployment process while ensuring long-term operational efficiency.

The relays offer exceptional resistance to interference and a high signal-to-noise ratio, ensuring stable and reliable communication. The RU Series Wireless Relays have been proven to operate reliably in demanding industrial environments, providing a dependable foundation for large-scale wireless sensor deployments.



Specifications

Product Model	RU200	RU200X
Wireless Sensor Network	2.4GHz Wireless Sensor Network (Bluetooth 5.0) Line-of-sight range: 300 meters with sensor node and 600 meters with gateway or another relay node	
Number of Nodes	64 (including gateway and relay)	
Transmit Power	20dBm	
Batteries	38000mAh Li/SOCL2 ER34615 x 2; replaceable	
Dimensions	158mm x 104mm x 59mm (L x W x H)	
Weight	1.0kg	
Operating Temperature	-40~85°C	
Operating Humidity	10%~90% RH	
Enclosure	Metal	
Ingress Protection	IP67	
Explosion Protection	-	EX ia IIC T4 Ga
Mounting	Bolt fastening or strapping	



RU200/RU200X