

HUGW9S

Smart Gateway



Product Functions and Features



High-performance hardware architecture

Serial communication parameters:
2400bps~115200bps



Communications & Security

Supports multiple communication protocols
including: 4G, Wi-Fi, Ethernet ports
RS485/RS232 serial ports, etc.



Industrial-grade performance

Operating temperature: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
Storage temperature: $-45^{\circ}\text{C} \sim +120^{\circ}\text{C}$
Operating humidity: 5 ~ 95%RH
Water resistance: Ip20

Product Overview

The HUGW9S gateway is a new generation of digital gateway. It is suitable for AC 50Hz/60Hz lines with a rated voltage up to 365V and is used in conjunction with Huanyu IoT circuit breakers.

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Product Name	Design serial number	IoT gateway code	type
gateway	9		W:WiFi R:RJ45 WR:WiFi+RJ45 G:4G GR:4G+RJ45

Normal working and installation conditions

1. Normal operating ambient temperature: -25°C to $+70^{\circ}\text{C}$; relative humidity < 75%RH;
2. Pollution degree: Level 2;
3. Product installation uses TH35-7.5 DIN rail mounting;
4. Before wiring and installation, check whether the circuit breaker's technical parameters meet the usage requirements. The power supply wire should be connected to the power supply side terminal on the gateway;
6. Installation altitude should not exceed 2000 m;
7. Installation category: Level II or III;

Main technical parameters

Types	WiFi/WiFi + RJ45	4G/4G+RJ45
Power Supply	AC85 ~ 265V, Power Consumption: < 2W	AC85 ~ 265V, Power Consumption: < 2W
Downlink Interface	1-channel RS485 main mode	1-channel RS485 master mode
Serial Communication Parameters	2400bps ~ 115200bps	2400bps ~ 115200bps, default is 57600bps
Uplink Interface	Automatic switching between WiFi and Ethernet, built-in WiFi antenna	Automatic switching between 4G and Ethernet
Uplink Speed	10Mbps	4G is 5Mbps, Ethernet is 10Mbps
Upgrades	Supports remote upgrades	Supports remote upgrades
Communication Protocol	Downlink MODBUS protocol, DI645 protocol, uplink MQTT	Downlink MODBUS protocol, DI645 protocol, uplink MQTT

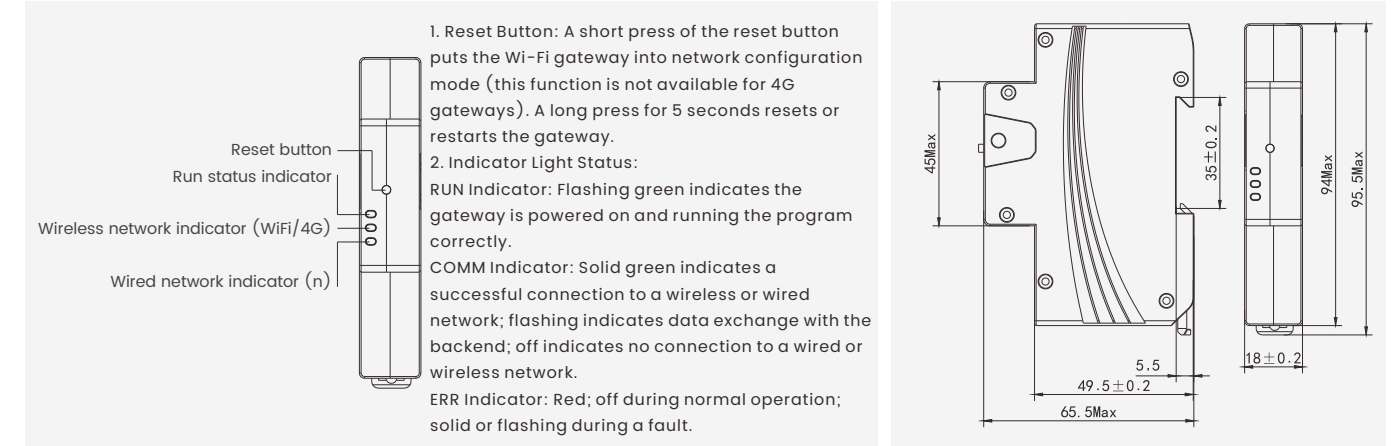
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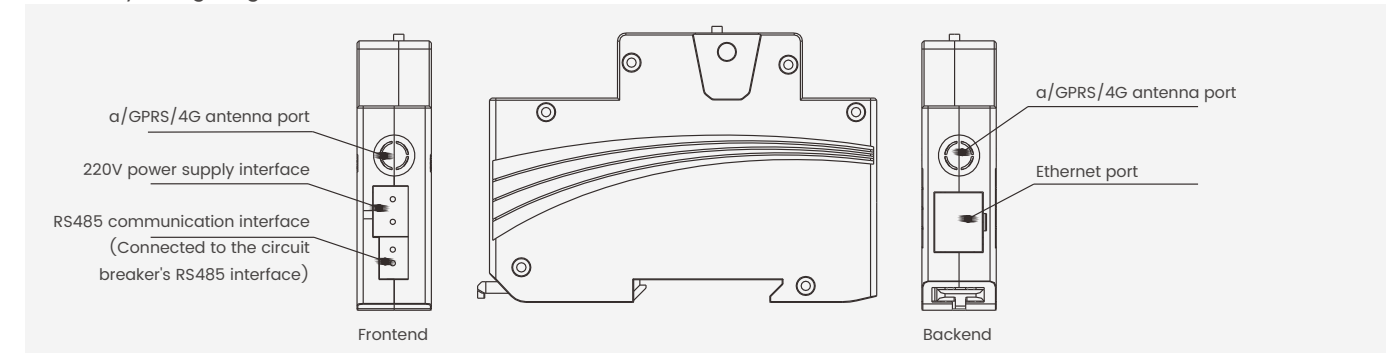
Button Indicator Light Description

Button indicator light diagram



Wiring diagram

1. Gateway wiring diagram



Wiring diagram of a gateway and IoT circuit breaker system (taking 2P as an example)

