WSG310
Data Concentrator

Overview

The WSG310 Data Concentrator can efficiently communicate with up to 1024 PLC/RF meters via RF/PLC for downlink and with the Master Station via GPRS, Optical Fiber, and Ethernet for uplink.

Highlights

1. The WSG310 Data Concentrator's routing algorithm is intelligent and efficient, with a real-time copy rate of 100% acceptance. This is due to its embedded database analysis and improved hardware peripheral circuits and devices.

2. Manage up to 1024 meters in the same distribution transformer or zone.

3. The downlink is compatible with different modules, such as G3-PLC, Prime, RF, NB-IoT, etc.

4. Various uplink methods are supported, including GPRS, Ethernet and Optical fiber.

5. The meter program is designed with modularity and based on the Linux open operating system, enabling flexible and reliable data access. It also allows for parameter setting via Ethernet port using IE.
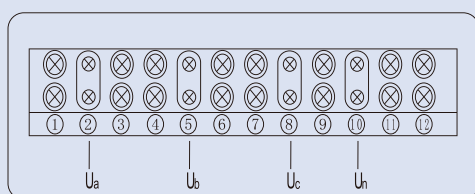
Data Concentrator

Main Feature

1. Provided for USB master-slave, Ethernet, serial port, 6-channel 485 interfaces and 2-way 232 interfaces support.

2. PPP multiplexing uplink communication technology is enabled in both hardware and software. Unlike the default connection transmission technology the terminal or concentrator built into the GPRS/CDMA module, the uplink data transmission speed is increased by 3 seconds per packet, resulting in faster uplink data transmission. In addition, the device has lower packet loss rate and higher reliability, and supports OLUE technology.

3. The concentrator has a data storage capacity of 256M, which exceeds its rated 32M capacity. It is equipped with embedded database technology, providing powerful data access and management capabilities.

4. Support breakpoints for file compression, file transfer and remote upgrade. When the compressed file to be upgraded is less than half, then the speed and reliability of the upgrade transmission are more than doubled.

5. The concentrator allows for remote Telnet login and execution of various Linux commands, including file transfer, TFTP, file editing, copying, and more.
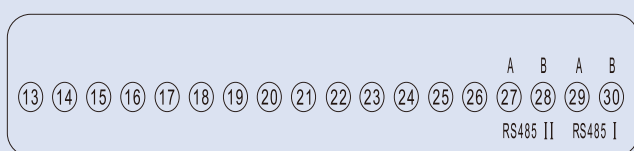
Technical Specifications

1	Rated Voltage	120V, 220V, 230V
2	Operating Voltage Range	0.8Un ~ 1.2Un
3	Frequency	50Hz or 60Hz
4	Power Consumption	Total power consumption during communication ≤10W/20VA
5	Protection class	IP53
6	RTC	≤0.5s/day (in 23°C)
7	Battery	Operating for at least 2 years in case of any power failure
8	Dimension	290mm x 180mm x 95mm
9	Weight	1.5kg

Connection diagram

Main terminal wiring diagram

Auxiliary terminal wiring diagram

Dimmension diagram