

QCJZQ-II DCU

Data Concentrator Unit



Overview

QCJZQ-II smart data concentrator is a gateway product used between smart grids and smart metering products, primarily used for the collection, management and transmission of smart meter data. It is flexible and suitable for a variety of metering products. The communication is of strong compatibility and high security. Besides, it has fast response, high system stability advantages.

DLMS

DLMS Suite 0 and Suite 1, provide high security and stability to communication.

Multi-Interface

Available for the dual supply. Meter can fast change the tariff according to the actual supply.

Fast Response

With high quality processor, advanced operating system, fast response, high system stability.



Standards

- ❖ IEC 62052-11
- ❖ IEC 62053-22
- ❖ IEC 60529
- ❖ Q/GDW 373-380 2009 Power user electric energy data acquisition system management specification -master station construction (China)

Highlights

- ❖ The data collection communication network is flexible and suitable for a variety of metering.
- ❖ Application layer communication adopts the international standard DLMS-COSEM, encryption communication, strong compatibility and high security.
- ❖ With high quality processor, advanced operating system, fast response, high system stability.

Main Function

- ❖ Meter management and schedule task.
- ❖ Data collection, storage and transmission.
- ❖ GPRS/3G/4G/Ethernet/fiber optic for uplink communication to the master station.
- ❖ Multiple downlink communication channels (PLC/Rf/combo PLC+RF/RS485) to energy meter.
- ❖ Automatic self-test and generating exception event reports.
- ❖ Local and remote upgrade.
- ❖ Multi-level security and AES 128 bit encryption.
- ❖ Compatible with DLMS/COSEM protocol and multi-protocols.
- ❖ Support gateway and DCU mode.
- ❖ Save data at power off.
- ❖ Self-checking and record anomaly information.
- ❖ Local reading by HHU through IR, and energy data can be up load to master station.
- ❖ Real time clock calibration function.

Technical Specification

Accuracy	Active	1.0
	Reactive	2.0
Voltage	Rated voltage	100V, 220V, 230V, 240V
	Range	0.8Un~1.2Un
	Limit	0.7Un~1.3Un
Frequency		50Hz/60Hz
Basic current(Ib)	Range	/
Maximum current(I _{max})	Range	/
Starting current		/
Display	Type	/
	Digit	/
Power	Voltage circuit	≤2.0W, 10VA
Consumption	Current circuit	≤4VA
Communication	Interface	RS485/GPRS/3G/4G/PLC/RF
	GPRS/CDMA	9600, 8N1
	RS485 for reading	2400, 8N1
	RS485 for cascading	9600, 8N1
	Stand-by RS485	115200, 8N1
	Port for setting parameter	IR:1200, 8E1
	HPLC	9600, 8E1
	Port for setting	115200, 8N1
Temperature Condition	Working Temperature	-25°C ~ +65°C
	Storage Temperature	-35°C ~ +75°C
Humidity		≤85%
IP degree		IP54
Dimension		159mm*112mm*73mm
Weight	Net weight	0.7kg
	Weight	0.9kg

