



Make It Easy



JOYC-DMWE103  
Data Management Box

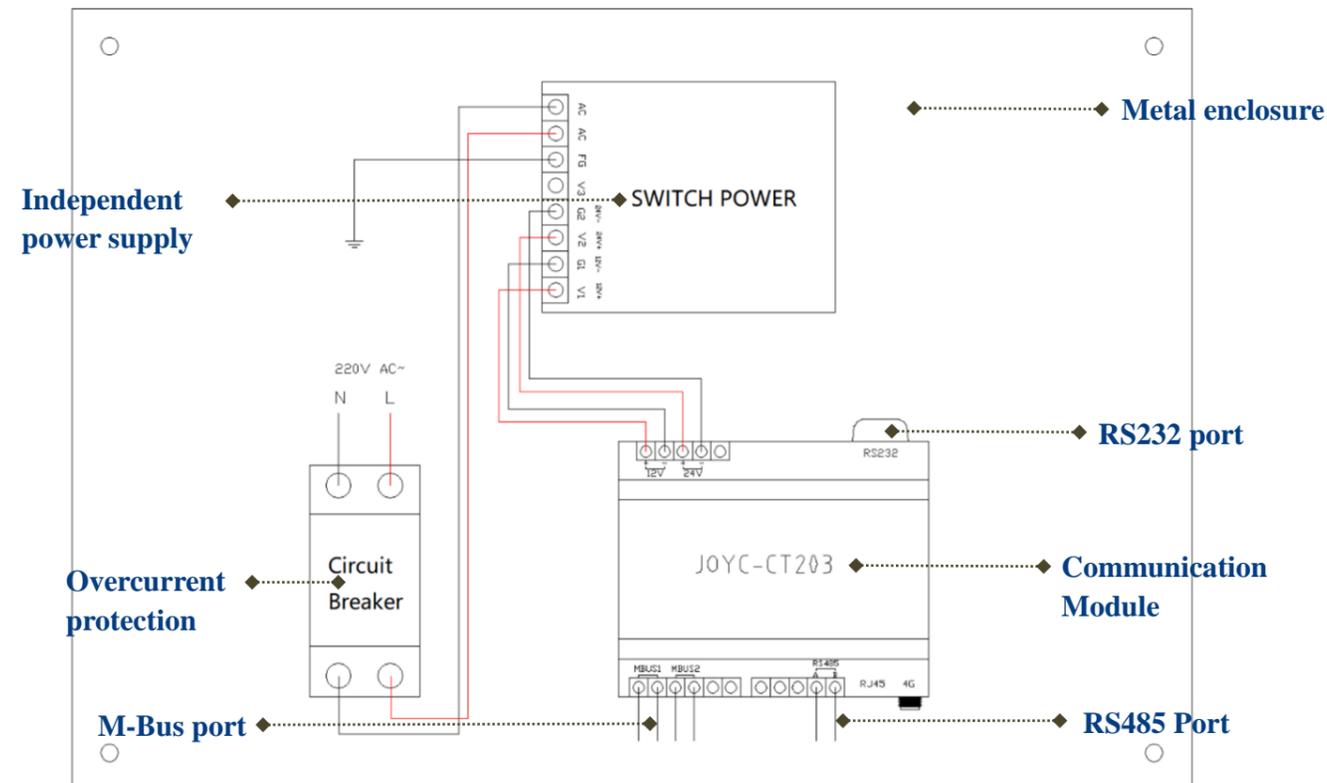
## DESCRIPTION

JOYC-DMWE103 is a combined data communication management unit, which integrates downlink module of RS485 and/or M-Bus and uplink module of 4G and/or Ethernet. With a variety of communication ports in one, JOYC-DMWE103 is able to handle the data collection from electricity meters, water meters, heat meters and gas meters that have RS485 or M-Bus port.

In addition, JOYC-DMWE103 is modular design that is made of air switch, switch power and communication module. It makes quick maintenance possible when any of components failed, and the trouble shooting could be done in the factory but not in the field.

## FEATURES

- ▶ Modular design
- ▶ LED status indication for site diagnosis
- ▶ Independent power supply
- ▶ Permission limitation with specialized key
- ▶ M-Bus short circuit protection
- ▶ Optional downlink and uplink ports
- ▶ Transparent transmission
- ▶ Robust design with metal enclosure
- ▶ Power line overcurrent protection
- ▶ Event reporting



## TECHNICAL SPECIFICATIONS

Item	Parameter
AC Power	220V
Uplink	Ethernet / 4G
Downlink	RS485/M-Bus
Debugging Interface	RS232
Load Capacity - RS485	≤ 100
Load Capacity - M-Bus	≤ 200
Communication Distance	≥500m, shielded twisted pair
Baud Rate	2400 ( M-Bus & RS485 )
Ethernet IP	Dynamic/Static allocation
4G System	LTE FDD: B1/B3/B5/B8
	LTE TDD: B34/B38/B39/B40/B41
	WCDMA: B1/B5/B8
	GSM/EDGE: B3/B8 (Optional)
SIM Card	NANO SIM
RTC	0.5s/day
Antenna Type	Sucker antenna
LED	Power status, RS485/M-Bus Communication status, Ethernet status
Firmware Upgrading	OTA
Installation Position	Wall-mounted
Installation Environment	Indoor
Data Storage	Event log
Device Life	8 years (read data hourly)
Protection	IP54
Dimension, mm	446*331*103
Weight, kg	6.7
Limit of Working Temperature	-20~70 °C
Storage Temp.	-20~70 °C
Function	Reverse DC voltage protection
	M-Bus short circuit protection
	M-Bus overload protection
	M-Bus management for power supply: long term or periodically
	Event reporting
	Data saving when power off