

QPM16-D Din-Rail Meter

Single Phase Prepayment Smart Meter



Overview

QPM16-D is a Din-Rail single phase smart prepayment meter used in a split prepayment metering system. It complies with STS, DLMS standard and multiple technical solutions that are adopted to communicate with AMI or AMR system. The QPM16-D is designed to upgrade existing product and combines new communication technology to develop a new DIN-rail meter to meet market requirement. The meter not only includes the original technology such as metering, prepayment, relay control, anti-tamper, as well as replaceable modules (wireless communication type), non-contact meter box opening detection (optional), etc.

DLMS

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

STS

STS standard protocol ensures an open operating system with high security.

Highlights

- ❖ Dual-circuits measuring
- ❖ STS prepayment supports to STS 6.0
- ❖ Down-link communicates with CIU by PLC/RF/ M-Bus/RS485
- ❖ Relay Control (Tamper/Arrear/Power Control/ Remote Control)
- ❖ By-pass detection, tamper event detecting.
- ❖ Firmware upgrade
- ❖ Easy to up-link upgrade by hot-swappable communication module
- ❖ IP54 Protection class
- ❖ Meter cover and meter base support ultrasonic welding

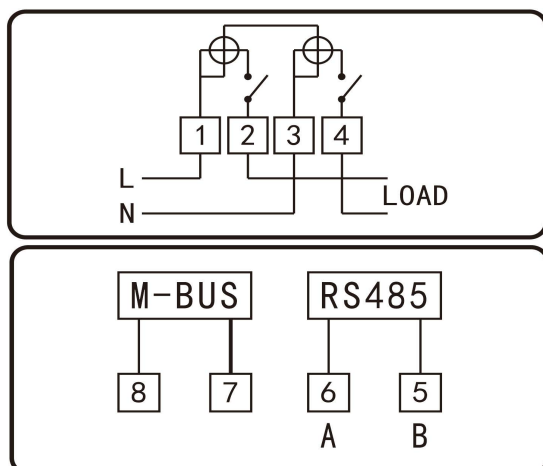
Main Function

- ❖ Measure Energy Consumption:import/export/ total(kWh)
- ❖ Neutral line measuring
- ❖ Demand(optional):cumulative demand (kW, kVar)
- ❖ TOU (optional):RTC/4&8 tariffs/ 50 holidays per year
- ❖ Communication:Optical interface, M-Bus, RS485, RS232, RF, PLC and Standard STS 8-Pin can be added as an option
- ❖ Communication Protocol: DLMS/COSEM
- ❖ Event: system event, power event, tamper event, relay event
- ❖ External battery with replaceable mechanism.

Technical Specification

Rated Voltage	Un (rated voltage)	220~240 V
	Operating Range	0.6Un~1.12Un
Rated Current	Ib (Basic Current)	5/10A
	I _{max} (Maximum Current)	30/60/80/100A
Rated Frequency	OperatingRange	50/60Hz
		±5%
Accuracy	Active	Class 1.0
	Reactive	Class 2.0
Power Consumption	Current circuit	≤1VA @Ib
	Voltage circuit	≤1.3W, 9VA @Un
Protection Level		IP 54
Dimension(L*W*D)		140.5mm×95mm×53mm
		140mm×89mm×52mm (with communication module)
Weight		0.4Kg
Service Life		15 years

Connection Diagram



Structure Diagram

