VC1100 DIN Rail Single Phase Prepaid Meter

Single phase split smart prepayment meter (Class 1.0) for modern prepaid electricity applications.



SMART PREPAYMENT	Prepaid/postpaid operation with STS/CTS support.
FLEXIBLE COMMUNICATION	PLC, RF, cable or RS485 communication options.
REVENUE PROTECTION	Anti-tamper monitoring and magnetic immunity.
IEC COMPLIANT	Designed around applicable IEC metering standards.

VC1100 - compact DIN rail metering for efficient, scalable prepaid electricity deployments.

VC1100 DIN Rail Single Phase Prepaid Meter

Standard

• Compliance with IEC standards (IEC 62052-11, IEC 62053-21, IEC 62053-23 and IEC 62055-31).

Product Features

• Compatible with current and future communication technologies.
• Sealable optical port.
• High bandwidth by dual modules.

Sustainability

• Upgrade from traditional to smart meter without any extra investment.
• High-efficient and self-adaptive communication module for harsh environments.

Measurements

• Two way energy measurements.
• Active energy & power, reactive energy & power, apparent energy & power, four quadrant energy & power, instantaneous value of voltage, current, power factor, frequency and power.
• Three auxiliary output terminals of electric pulse (kWh, kvarh, CLOCK).
• Up to 12 months billing data registers.

Prepaid Functions

• Prepaid/postpaid mode switchable.
• 20 digit transmission as a token; customer purchases energy before consumption through keypad.
• Low balance alert by audible and lamplight to remind user to top up energy.
• Support emergency & Friendly holiday mode.
• STS/CTS mode switchable.

Anti-tamper

• Detection of meter cover, terminal and communication module cover opening, bypass, etc.
• External magnetic field detector and magnetic immunity.

Communication

• IEC 62056-21 compliance.
• Remote/Local firmware upgrade for meter and communication module FW.
• Flexible communication options: Optical port; RS485; wired M-bus; optional built-in PLC or RF channels with UIU.

Technical Specifications

Nominal Voltage	230V
Voltage Range	0.5Un~1.3Un
Current	5(80)A
Frequency	50Hz / 60Hz
Accuracy Class	Active Energy: CL 1.0 - 1000 imp/kWh Reactive Energy: CL 2.0 - 1000 imp/kvarh
Standard	Fully compliant with IEC 62052-11, IEC 62053-21, IEC 62053-23 and IEC 62055-31 standards (mechanical, climatic, electrical, electromechanical and metrological).
Real-time Clock Accuracy	<3min/Year or <0.5s/Day
Environment	Temperature Range: -25 deg C ~ +75 deg C Humidity: Up to 95%
Ingress Protection	IP54
Communication Interface	Optical port (IEC 62056-21) RS485/PLC/RF Protocol (IEC 62056)

Accessories

Communication	Supporting external telephone modem Cabling for external communication devices IR-reading device for connection to PC
Configuration	PC software for configuration and data reading
Installation Tool	Sealing kit
Documentation	User Manual