

SDM120C

The smallest energy meter in the world
Measure for the smart world



Single Phase DIN Rail RS485 Energy Meter

Introduction

The SDM120C is an advanced single phase energy analyzer with built-in configuration push button and LCD data displaying, particularly indicated for active energy and other parameters metering and for cost allocation. Housing for DIN-rail mounting, IP51 protection degree, Direct connection up to 45A. Moreover the meter can be provided with either pulse output proportional to the active energy being measured or a RS485 output port for remote communication.

Features

- 1 DIN module
- Up to 45A load
- Pulse output
- Backlit(optional)
- kWh, V, A, PF, Hz, kW, etc.

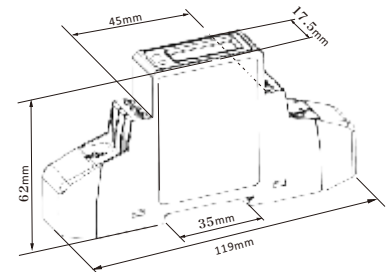
Performance Criteria

Operation Humidity	≤85%
Storage Humidity	≤95%
Operation Temperature	-20°C~+50°C
Storage Temperature	-30°C~+70°C
International Standard	IEC62053-21
Accuracy	Class 1. 0
Protection Against Dust And Water	IP 51
Insulating Encased Meter Of Protective Class	II

Specification

Nominal Voltage(Un)	230V AC
Operational Voltage	176~276V AC
Insulation Capabilities	
AC Voltage Withstand	4KV for minutes
Impulse Voltage Withstand	6KV-1.2μS waveform
Basic Current (Ib)	5A
Maximum Rated Current (Imax)	45A
Operational Current Range	0. 4%Ib~Imax
Over Current Withstand	20Imax for 0.01s
Operational Frequency Range	50~60Hz
Internal Power Consumption	≤2W/10VA
Pulse Output	1000/2000imp/kWh
Communication Type	RS485
Communication Protocol	Modbus RTU

Dimensions



Wiring Diagram

