DDS226D-1P M Din-rail Single-phase Meter

DDS226D-1P M Single-phase Din-rail Energy Meter (One Module with RS485)

General

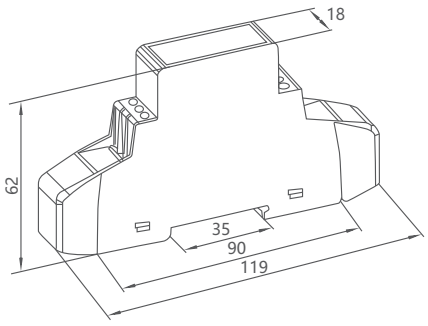
The meter is designed to measure single phase two wire AC active energy like residential, utility and industrial application. It has remote read communication port RS485. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

Basic Function

1. LCD display with backlight;
2. Bi-directional total active energy, reverse active energy measure in the total active energy;
3. The meter also display real voltage, real current, real power, real power factor, real frequency, import active energy, export active energy;
4. Keypad for LCD display step by step
5. Reset energy function (the reset energy kWh display is dependent with the total energy display, this reset will not affect the total energy)
6. RS485 communication port , MODBUS-RTU protocol
7. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
8. Energy data can store in memory chip more than 15 years after power off
9. 35mm din rail installation

Specifications

Technical Index	Specification
Rate voltage	110V,120V,220V,230,240V
Working voltage range	0.8~1.2Un
Rate Current	5(40)A,5(45)A
Frequency	50Hz or 60Hz +10%
Connection mode	Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<2W/10VA
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
Over current withstand	30Imax for 0.01s
IP grade	IP20
Constant	2000 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms 5~27VDC, Max current input 27mA DC
Communication port	RS485 port, baud rate 1200~9600 bps, default is 9600bps, address 1~247, None parity, stop bits 1, data bits 8.
Executive standard	DIN 43880, IEC62053-21, IEC62052-11, MODBUS-RTU
Outline dimension L×M×H	119×18×62mm (long terminal cover)
Weight	Approx 0.09kg



DDS226D-1P Din-rail Single-phase Meter

DDS226D-1P Single-phase Din-rail Energy Meter

General

DDS226D-1P single phase DIN-rail watt-hour meter is a kind of new style single phase electrical watt-hour meter, it adopts micro-electronics technique, and imported large scale integrate circuit, use advanced technique of digital and SMT techniques etc. The meter completely accord with relevant technical requirements of class 1 and class 2 single phase energy meter stipulated in National Standard GB/T17215-2002 and International Standard IEC62053-21(IEC61036). It can accurately and directly measure 50/60Hz active energy consumption from single phase AC electricity net, it can display total energy consumption by step type impulse register. It has following features: good reliability, small volume, light weight, specious appearance, convenient installation, etc.

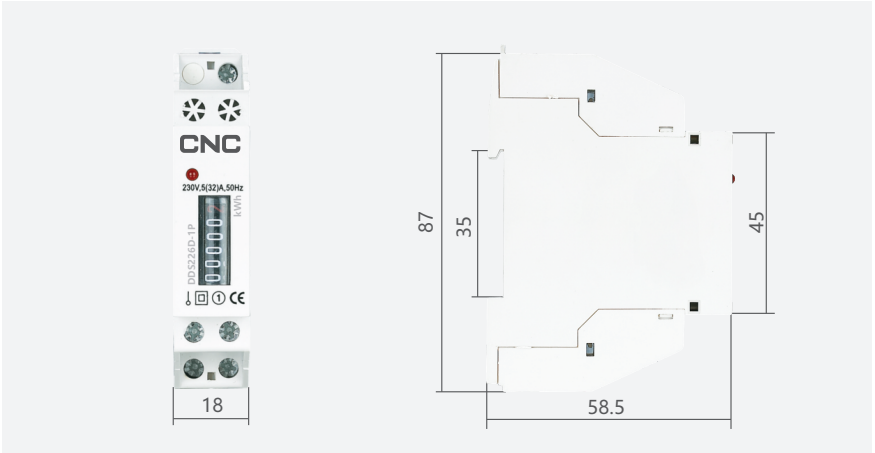
Function and features

1. 35 mm standard DIN rail installation, complying with standard DIN EN5002
2. 18 mm width, complying with standard DIN43880
3. May select step motor type impulse register display (5+1) 99999.9kwh or LCD digital display 99999.9kwh(5+1), 999999.9keh(6+1), 99999.99kwh(5+2)
4. Standard configuration one port of pulse output passive(polarity)
5. Standard configuration one neutral(N) wire connect, may select two neutral wire connect(N-in, N-out) (as special required)
6. LCD display meter can select 9999999wh(equal to 9999.999kwh), which suit to measure small power consumption(as special required)

Specifications

Type	Accuracy Class	Rated Voltage (V)	Rated Current (A)	Staring Current	Insulation Performance
DDS226D-1P	Class 1	220V, 230V 240V	5(25)A, 5(30)A 5(45)A	0.4%Ib	AC voltage 2KV for 1 min, impulse voltage 6KV

Overall and mounting dimensions(mm)



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DDS226D-2P Din-rail Single-phase Meter

DDS226D-2P Single-phase Din-rail Energy Meter

General

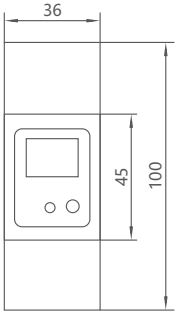
The meter is designed to measure single phase two wire AC active energy like residential, utility and industrial application. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume .

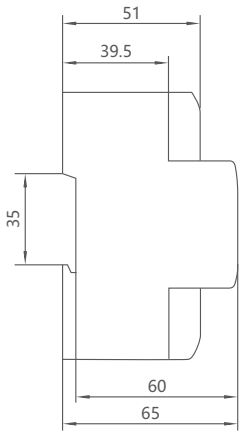
Basic Function

1. LCD display 5+1(default) or 4+2 kWh, Display;
2. Bi-directional total active energy measurement, reverse active energy measure in the total active energy;
3. Pulse LED indicates working of meter, Passive pulse output with optical coupling isolation;
4. Energy data can store in memory chip more than 15 years after power off;
5. 35mm din rail installation.

Specifications

Technical Index	Specification
Rate voltage	110V,120V,220V,230,240V
Working voltage range	0.8~1.2Un
Rate Current	5(65)A, 10(100)A, or special required
Frequency	50Hz or 60Hz +10%
Connection mode	Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<1W/10VA
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
Over current withstand	30Imax for 0.01s
IP grade	IP20
Constant	1000~2000 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms 5~27VDC, Max current input 27mA DC
Executive standard	DIN 43880, IEC62053-21, IEC62052-11
Outline dimension L×M×H	100×36×65mm
Weight	Approx 0.14kg





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DDS226D-2P M Din-rail Single-phase Meter

DDS226D-2P M Single-phase Din-rail Energy Meter

General

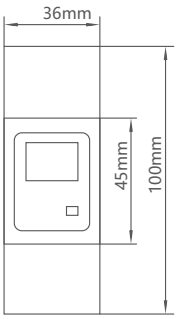
The meter is designed to measure single phase two wire AC active energy variable parameter like residential, utility and industrial application. It has remote read communication port RS485. It is a long life meter with the advantages of high stability, high over load capability, low power loss and small volume.

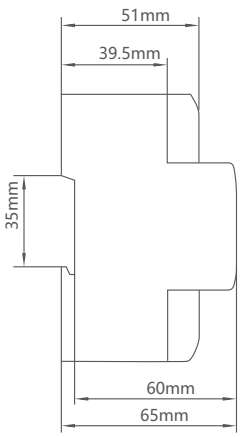
Function

1. LCD display with backlight, keypad for LCD display step by step
2. Bi-directional total active energy, total active energy reverse active energy measurement
3. The meter also displays real voltage, current, active power, reactive power , power factor, frequency, import active energy, export active energy, resettable interval energy
4. RS485 communication port, MODBUS-RTU protocol
5. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
6. Energy data can store in memory chip more than 15 years after power off
7. 35mm din rail installation

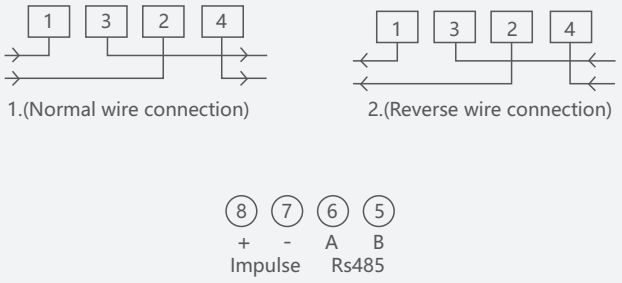
Technical data

Technical Index	Data		
Rated voltage AC	110V,120V,220V,230,240V (0.8~1.2Un)		
Rated current/frequency	5(65)A, 10(100)A/50Hz or 60Hz±10%		
Communication port	RS485 port, baud rate 1200~9600 bps, default is 9600bps, address 1~247, None parity, stop bits 1, data bits 8.		
Connection mode	Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA	Start current	0.004lb
AC voltage withstand	4000V/25mA for 60s	Over current withstand	30Imax for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 DIN 43880
Work temperature	-25℃~70℃	Pulse output	Passive pulse,80±5ms





Wiring diagram



Note: If reverse wire connection as photo 2, the total energy still can measure

DDS226D-2P WIFI Din-rail Single-phase Meter

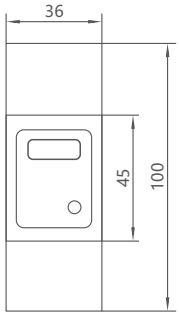
DDS226D-2P WIFI Single-phase Din-rail Energy Meter

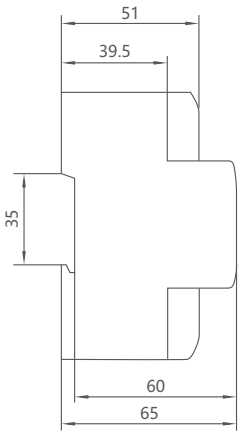
General

The meter is designed to measure single phase two wire AC active energy and variable parameter like residential, utility and industrial application.It can remote read from WIFI communication. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

Basic Function

1. LCD display,button for LCD display step by step
2. Bi-directional total active energy, reverse active energy measure in the total active energy
3. The meter also display real voltage, current, active power, reactive power,power factor,frequency
4. Timing and delay control by APP
5. History active energy consumption tracking by APP
6. Check the real current,voltage active power by APP
7. Remote control on/off by APP
8. WIFI communication, can read and remote control by mobile phone APP
9. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
10. Energy data can store in memory chip more than 15 years after power off
11. 35mm din rail installation





Specifications

Technical Index	Specification		
Rate vtltage AC	110V~270V1(0.8~1.2Un)		
Rate Current/Frequency	5(65)A 50Hz or 60Hz±10%		
WIFI	802.11b/g/n		
Connectin mode	Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA	Start current	0.004lb
AC voltage withstand	4000V/25mA for 60s	Over current withstand	30lmax for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 DIN 43880
Work temperature	-25℃~70℃	Pulse output	Passive pulse,80±5ms

DDS226D-4P WIFI Din-rail Single-phase Meter

DDS226D-4P WIFI Din-rail Single-phase Meter

General

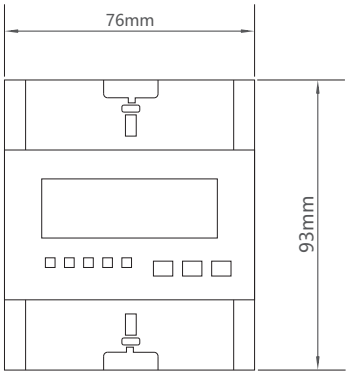
The meter is designed to measure single phase two wire AC active energy variable parameter like residential, utility and industrial application. It has remote read communication port RS485 and WIFI. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume .

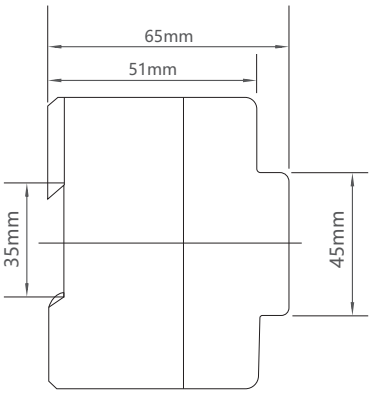
Basic Function

1. LCD display, touch button for LCD display step by step;
2. Bi-directional total active energy ,reverse active energy measure in the total active energy;
3. The meter also display real voltage, real current, real power, real power factor, real frequency, import active energy, export active energy;
4. Overvoltage protection ,overload protection;
5. Timing and delay control by mobile phone;
6. RS485 communication port, MODBUS-RTU protocol;
7. WIFI communication, can read and remote control by mobile phone;
8. Pulse LED indicates working of meter, Pulse output with optical coupling isolation;
9. Energy data can store in memory chip more than 15 years after power off;
10. 35mm din rail installation , bottom type wire connection.

Optional Function

Select outer WIFI antenna.





Specifications

Technical Index	Specification
Rate voltage	110V~270V(wide voltage operation)
Working voltage range	0.8~1.2Un
Rate Current	5(60)A
Frequency	50Hz or 60Hz +10%
Connection mode	Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<1W/10VA
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
Over current withstand	30Imax for 0.01s
IP grade	IP20
Constant	1600~3200 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms
Communication port	RS485 port, baud rate 1200~9600 bps, default is 9600bps, address 1~247, None parity, stop bits 1, data bits 8.
Executive standard	DIN 43880, IEC62053-21, IEC62052-11, MODBUS-RTU
Outline dimension L×M×H	93×76×78mm
Technical Index	Approx 0.36kg