DDS238-2 ZN/S single phase din rail type watt hour meter (D1204)

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 advantage of high stability, high over load capability, low power loss and small volume.

Basic Function

★LCD display with blue backlight

★ Bi-directional total active energy, reverse active energy measure in the total active energy

★The meter also display real voltage, real current, real power, real power factor, real frequency, import active energy, export active energy, resettable interval energy

★keypad for LCD display step by step

★RS485 communication port, MODBUS-RTU protocol

★Pulse LED indicates working of meter, Pulse output with optical coupling isolation

★Energy data can store in memory chip more than 15 years after power off

★35mm din rail installation

Noting : other voltage , current are also available . Other function also can be special design as customer requirement

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Technical Data

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	<0.5W/8VA
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
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 LXMXH	100x36x65mm
Weight	Approx 0.18kg

Accuracy

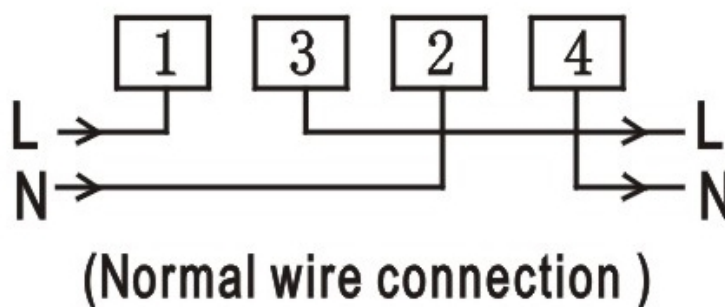|	
Voltage	0.5%
Current	0.5%
Power Factor	1%
Active power	±1%
Reactive Power	±2%
Active Energy (kWh)	Class 1.0

Environment
Noting : other voltage , current are also available .   Other function also can be special design as customer requirement

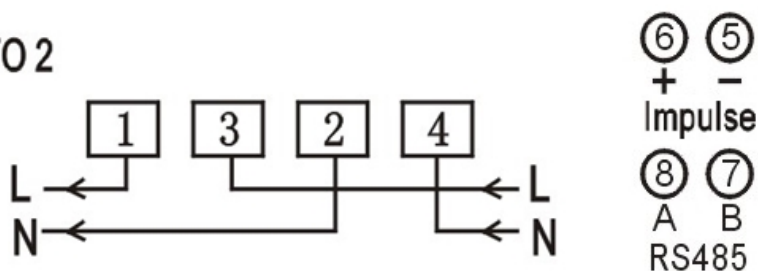## DDS238-2 ZN/S single phase din rail type watt hour meter (D1204)

Operating temperature	-25℃～55℃
Storage temperature	-40℃～80℃
Reference temperature	23℃±2℃
Relative humidity	0 to 95%, non-condensing
Altitude	Up to 2500m
Warm up time	10s
Mechanical Environment	M1
Electromagnetic Environment	E2
Degree of pollution	2

Wire connection

PHOTO 1

(Normal wire connection)

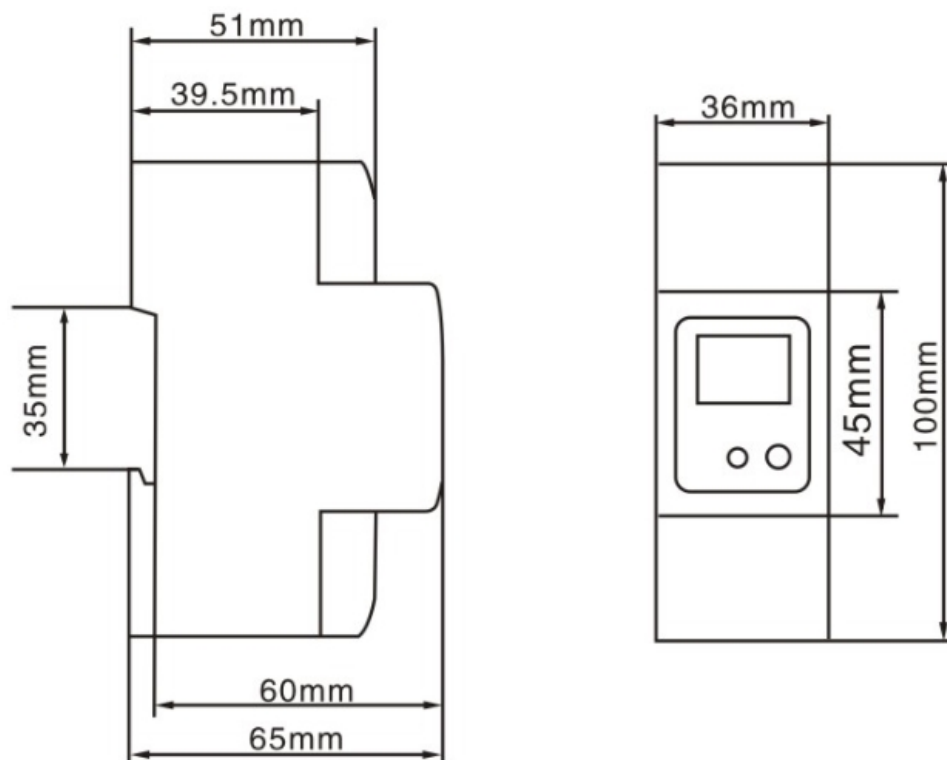PHOTO 2

⑥ ⑤
\+ \-
Impulse
⑧ ⑦
A B
RS485

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

Outline dimension
Noting   : other voltage , current are also available .   Other function also can be special design as customer requirement

DDS238-2 ZN/S single phase din rail type watt hour meter (D1204)

51mm

39.5mm

35mm

60mm

65mm

36mm

45mm

100mm

Noting : other voltage , current are also available . Other function also can be special design as customer requirement