

Product data sheet

Characteristics

DRS-202C

Single phase + neutral kWh meter

230V 10(100)A

General Technical Data

Voltage (V)	
Voltage AC (Un)	230
Voltage range	-30% to +30% of Un
Current (A)	
- base (Ib)	10
- max (Imax)	100
Starting current (mA)	0.4% of Ib
Power consumption of current	≤ 2W/ 10VA

General data

Frequency (Hz)	50/60(±10%)
Accuracy	1.0

Standards

IEC 62053-21

Memory back-up

EEProm

Enclosure material

Upper	Polycarbonate
Lower	Polycarbonate/glass fibre

Temperature range (°C)

Operating	-10°C to +50°C
Storing	-30°C to +70°C

Humidity

Operating	75%
Storing	95%

Protection

Protection against penetration Of dust and water	IP51
Insulating encased meter of Protective class	II

Voltage withstand

AC voltage withstand	2KV for 1 minute
Impulse voltage withstand	6KV -1.2μS waveform

Current withstand

30Imax for 0.01s

Pulse output rate

1600 imp/kWh

Data stored

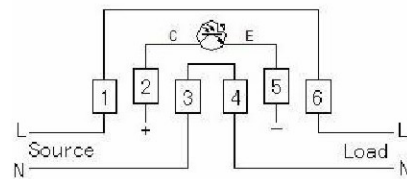
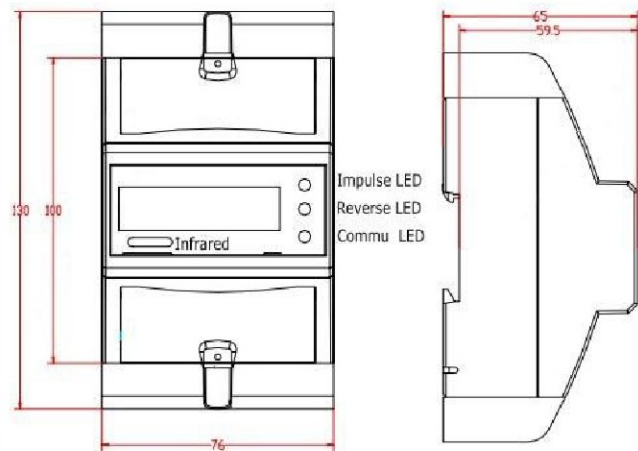
More than 20 years when power off

RS485 communication specifications

Bus type	RS485
Protocol	MODBUS RTU with 16 bit CRC
Baud rate (bps)	1200 (default), 2400,4800,9600
Address range	0-255 user settable
Bus Loading	256 meters per bus
Rage (m)	1200

Infrared communication specifications

Infrared wavelengths (nm)	Between 900 and 1000
Communication distance (m)	5
Communication angle	-15° to +15°
Baud rate (bps)	1200(default), 9600(optional)
Portocol	MODBUS RTU with 16 bit CRC



- 1/2 Phase line IN/OUT
- 3/4 Neutral line IN/OUT
- 5 and 6 Test pulse output contact
- 7 and 8 RS485 communication contact

To comply with the protection requirements the meter must be mounted in a class IP 51 enclosure or better, according to IEC 60529

Display

Display type	LCD
Digit length	5+2

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Shanghai Fengyilong Electronic Co., Ltd. nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.