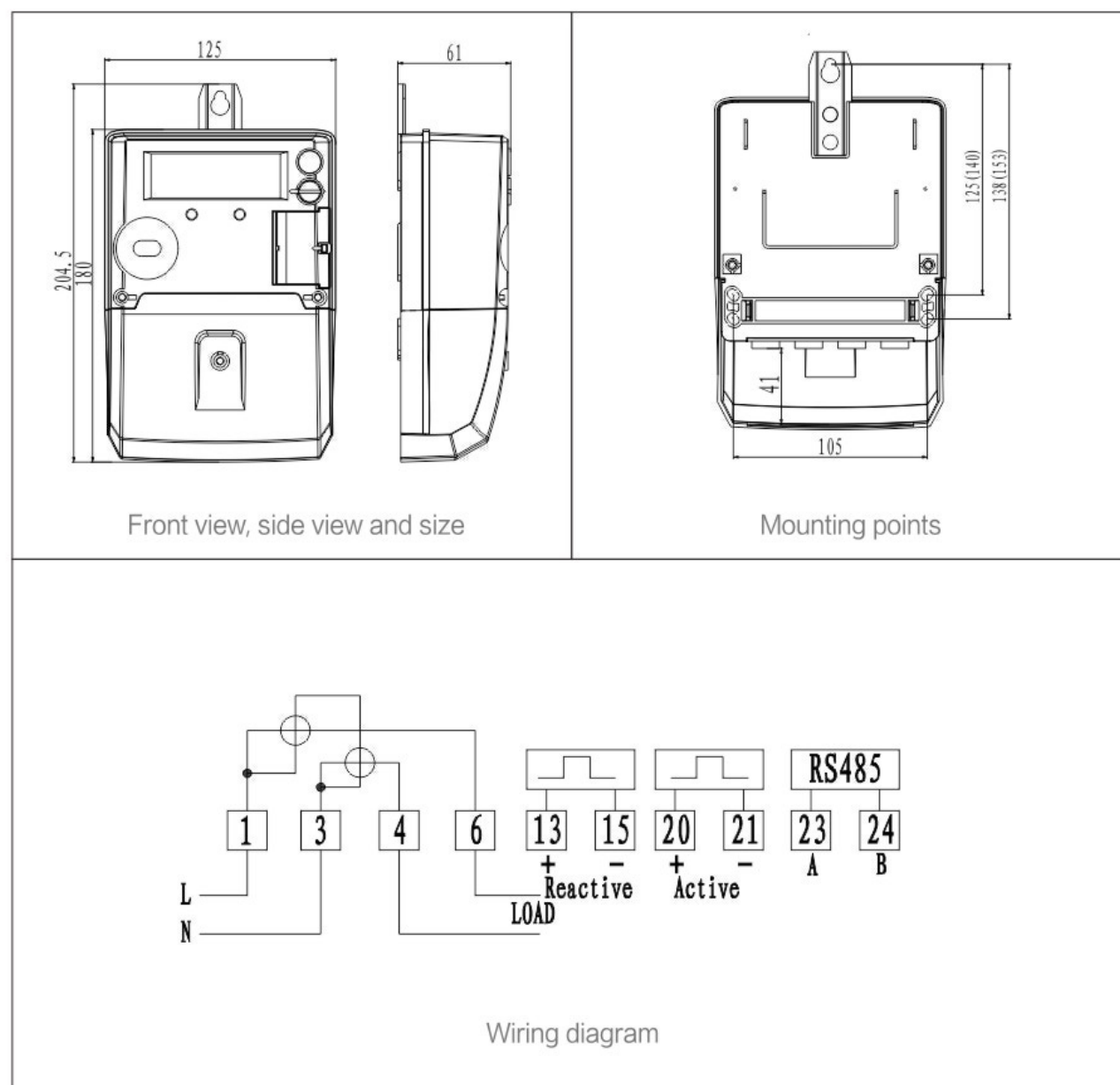


## DIMENSION & CONNECTION



# DDS285-IC1

## Single Phase Multi-functional Meter



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# OVERVIEW



DDSD285-IC1 is a new generation of multi-functional meter for residential user. The meter can realize the function of automatic reading. This meter complies with IEC 62053-21 and IEC 62053-23. With low power consumption, it is suitable for the users in residential building, school, apartment project, etc.

## ADVANTAGES / FEATURES

- Low power consumption
- Support optical and RS485 communication with DLMS protocol
- Multi-tariff
- Tamper-proof

## MEASUREMENT

- Measure the active energy in both directions
- Record the instantaneous data:
  - Voltage (V)
  - Current (A)
  - Active power (kWh)

## EVENT

- Record the latest 5 times events:
  - Tampering
  - RTC change
  - Tariff change
  - Billing
  - Low battery
  - Magnetic influence

## DISPLAY

- Support 3 display mode:
  - Scrolling display
  - Button display
  - Power off display
- The display items are configurable
- Backlight is available when the light is weak

## TOU

- Support up most 4 tariffs
- 4 season tables, 8 weeks tables, 12 day tables
- 12 fix holiday and 40 configurable special holiday

## BILLING & DEMAND

- Storage recent 12 times billing data
- Record the demand:
  - Forward and reverse active power
  - Active power in the 4 tariffs
- Block type demand, with configurable interval

## ANTI-TAMPER

- Meter cover open
- Terminal cover open
- Power off
- Programming
- Current reverse
- Magnetic influence

## LOAD PROFILE

- 2 channels

## SPECIFICATION

| NO. | TYPE   | PARAMETER   |
|-----|--|---|
| 1   | Standard                                     | IEC62052-11, IEC62053-21, IEC62053-23<br>IEC62056-21, IEC62056-61, IEC62056-53<br>IEC62056-46 |
| 2   | Accuracy                                     | Active Accuracy : Class 1.0(IEC 62053-21)<br>Reactive Accuracy : Class 2.0(IEC 62053-23)      |
| 3   | Rated Voltage                                | 230 V   |
| 4   | Operation range                              | 0.8Un~1.2Un   |
| 5   | Current                                      |   |
| 6   | Basic current                                | 5A  |
| 7   | Maximum current                              | 80A   |
| 8   | Starting current                             | 0.004Ib   |
| 9   | Power consumption                            |   |
| 10  | Voltage circuit(Un)                          | ≤1W/10VA  |
| 11  | Current circuit(In)                          | ≤0.5VA  |
| 12  | Frequency                                    | 50Hz  |
| 13  | Temperature                                  |   |
|     | Operating temperature                        | -25°C to +55°C  |
|     | Storage and transportation temperature       | -40°C to +70°C  |
| 14  | Humidity                                     | < 75%   |
| 15  | Protection Class                             | IP54  |
| 16  | RTC  | ≤0.5s/day (in 23°C)   |
| 17  | Insulation strength                          |   |
|     | AC voltage test                              | 4kV, 1min   |
|     | Impulse voltage test                         | 6kV, 1min   |
| 18  | EMC  |   |
|     | Electrostatic discharges(Contact discharges) | 8kV   |
|     | Electrostatic discharges(Air discharges)     | 15kV  |
|     | Surge immunity test                          | 4kV   |
|     | Fast transient burst test                    | 4kV   |
| 18  | Electromagnetic RF fields                    | 10V, 150kHz~80MHz   |
|     | Battery                                      | Operating for at least 2 years in case of any power failure                                   |
| 20  | Meter case material                          | Polycarbonate<br>Fire, heat and ultra violet radiation resistant                              |
| 21  | Communication                                | Optical communication, RS485  |
| 22  | Dimension                                    | 180mmx125mmx61mm  |
| 23  | Weight                                       | Approx. 0.5kg   |