

# KILOWATT HOUR METER

## DSS858/DTS858

Three-phase electronic energy meter



### Application

DSS858/DTS858 three-phase electronic energy meter adopts large scale integrated circuit,16-bit A/D conversion,digital multiplier,digital sampling and SMT technology,can measure positive/reverse active power of 3-phase directly and accurately and indicate by LCD. With extra additional infrared and Rs485 communication function.  
Stable and reliable, with exellent anti-electromagnetic interference performance,low consumption, high accuracy,anti electric -stealing.  
It conforms to the standard IEC61036.

### Technical features

| Model  | Category            | Reference voltage | Rated current In | Impulse constant   |
|--------|---------------------|-------------------|------------------|--------------------|
| DSS858 | 3 phases<br>3 wires | 3x100V            | 3x1.5(6)A        | Based on nameplate |
|        |                     |                   | 3x3(6)A          |                    |
|        |                     | 3x380V            | 3x1.5(6)A        |                    |
|        |                     |                   | 3x3(6)A          |                    |
|        |                     |                   | 3x2.5(10)A       |                    |
|        |                     |                   | 3x5(20)A         |                    |
|        |                     |                   | 3x10(40)A        |                    |
|        |                     |                   | 3x15(60)A        |                    |
|        |                     |                   | 3x20(80)A        |                    |
|        |                     |                   | 3x30(100)A       |                    |
| DTS858 | 3 phases<br>4 wires | 3x57.5/100V       | 3x1.5(6)A        |                    |
|        |                     |                   | 3x3(6)A          |                    |
|        |                     |                   | 3x1.5(6)A        |                    |
|        |                     |                   | 3x3(6)A          |                    |
|        |                     |                   | 3x2.5(10)A       |                    |
|        |                     |                   | 3x5(20)A         |                    |
|        |                     |                   | 3x10(40)A        |                    |
|        |                     |                   | 3x15(60)A        |                    |
|        |                     |                   | 3x20(80)A        |                    |
|        |                     |                   | 3x30(100)A       |                    |

| Normal working voltage          | 0.8~1.2 rated voltage |
|---------------------------------|-----------------------|
| Isolation voltage               | ≥2000V(AC)            |
| Voltage cycle power consumption | ≤2W,10VA              |
| Accuracy                        | 1.0 class; 2.0 class  |
| Outline size                    | 230x145x90mm          |
| Weight                          | About 3Kg             |

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#### Actuation

$\cos \varphi = 1.0$  ( $\sin \varphi = 1.0$ ), load current is 0.004Ib (1.0 class), 0.005Ib (2.0 class), meter can continuously measure energy.

#### False actuation

115% of rated voltage on loop, energy impulse shouldn't output when current loop break

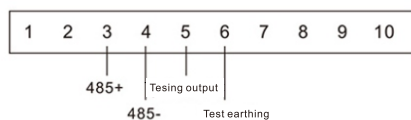
#### Working condition

Normal working temperature:  $-20^{\circ}\text{C} \sim -50^{\circ}\text{C}$   
Storage & transport temperature:  $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$

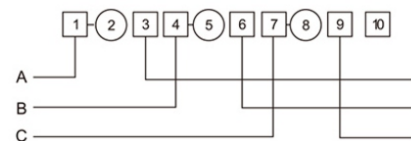
Extreme working temperature:  $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$   
Annual average humidity  $\leq 75\%$

#### Terminal wiring diagram

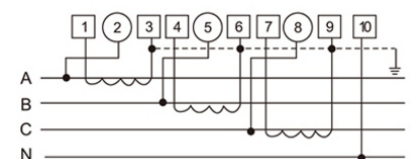
Function terminals wiring



Meter impulse signal terminal wiring

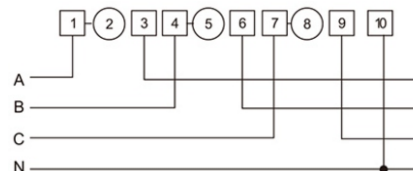


3-phase 3 wires direct connection type wiring

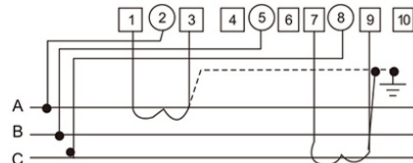


3 phase 4 wires CT connection type wiring

Power terminals wiring



3-phase 4 wires direct connection type wiring

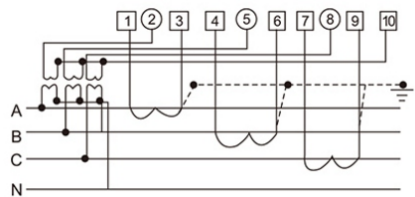


3-phase 3 wires CT connection type wiring

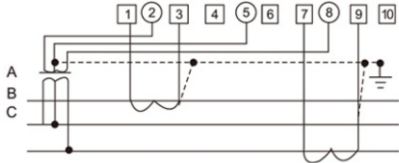
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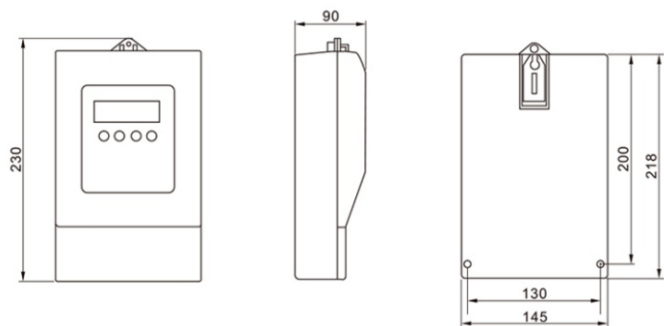


3 phase 4 wires CT, voltage transformer connection type wiring



3 phase 3 wires CT, voltage transformer connection type wiring

### Outline & mounting size



### Communication diagram

