DSS(X)858/DTS(X)858型

Three-phase electronic active and reactive combined meter(LCD)



LCD indicate with infrared and RS485 communicate

1.Application

3-phase electronic active and reactive combined meter,has high-accuracy and feasibility and it adopts the large-scale integrated and low-consumption technology and SMT technology. This product conforms to the standard of GB/T17215.321-2008, and GB/T17882-1999,DL/T614-1997,DL/T645-1997.

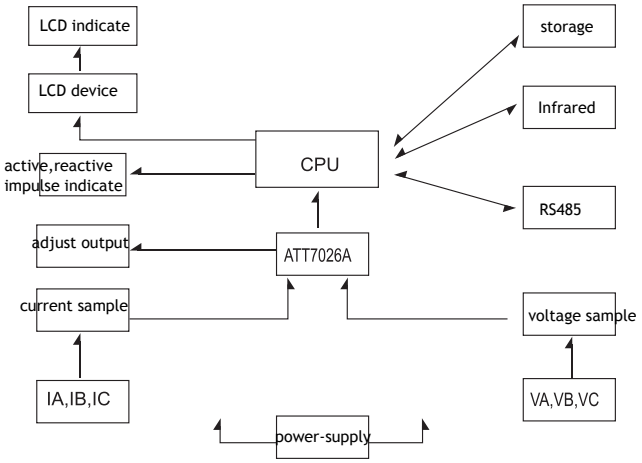
This product is applied to reactive energy measure enterprise, transformer substation,and it also suitable to power-distribution and power-grid automatic.

This product can measure the 3-phase AC active and reactive power in the reference 50Hz power grid,and it can measure the positive and negative power,and has infrared and RS485 communication function.

The advantages has high-accuracy,reliability,wide load,low consumption, flat error curve,strong anti-interference.

◆CPU unit operate principle

high-frequency is output by energy measure unit through two Photoelectric couplers,one as no-supply impulse output use to inspection of factory and user. another is sent to CPU to process data. Under the system command,CPU calculates the active and reactive power according to data stored and constant, then transfer it to internal storage which can indicated by LCD,and also can indicated by infrared and RS485 communicate.



CPU unit operate principle diagram

2.Technical index

- ◆ Reference frequency:50Hz
- ◆Accuracy level: active 1level,reactive 2 level
- ◆start: under the reference voltage,frequency,factor 1.0, active 0.004Ib(1 level),reactive 0.005In(2 level),meter can start and measure energy continuously.
- ◆ shunt running:has logic anti-shunt function, voltage circuit with reference voltage 115%,current circuit break, meter shall not produce more than one impulse.

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◆electrical parameter

Model No.	Type	Reference voltage Un	Rated current In	active impulse constant imp/kWh	reactive impulse constant imp/kvarh
DSS(X)858	3-phase 3-line	3×100V	3×1.5(6)A	6400	6400
			3×3(6)A	6400	6400
		3×380V	3×1.5(6)A	6400	6400
			3×3(6)A	6400	6400
			3×5(20)A	1600	1600
			3×10(40)A	800	800
			3×15(60)A	400	400
			3×20(80)A	200	200
			3×30(100)A	200	200
DTS(X)858	3-phase 4-line	3×57.7/100V	3×1.5(6)A	6400	6400
			3×3(6)A	6400	6400
		3×220/380V	3×1.5(6)A	6400	6400
			3×3(6)A	6400	6400
			3×5(20)A	1600	1600
			3×10(40)A	800	800
			3×15(60)A	400	400
			3×20(80)A	200	200
			3×30(100)A	200	200

◆specification

Normal voltage range	0.8-1.1 reference voltage	normal temperature range	-20°C~+50°C
Ultimate voltage range	0.7-1.2 reference voltage	ultimate range	-30°C~+60°C
Voltage circuit consumption	≤6VA/ 1.5W	storage and transport	-25°C~+70°C
Current circuit consumption	≤2VA	relative humidity	annual average ≤75%
After power-off,data keep time	≤2VA		

3.Install

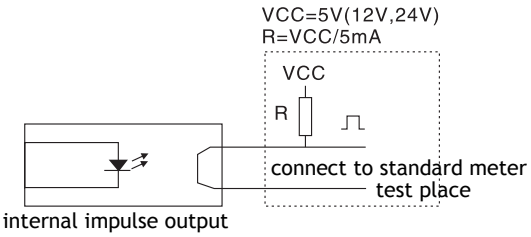
Install energy meter shall be done by professional.

Please check the energy meter outfit and accessories after open the box.

Meter upper has hook screw hole for fix by M4 hook screw. lower has 2 install hole for M4 x10 or M4 x 12 tap-screw to fix at wall or connect board. And please check the seal complete.

Meter wiring shall following the diagram on the terminal shell, 13,14 is RS485 communicate port, 15,16 is active impulse test output port, 17,18 is reactive impulse test output port.

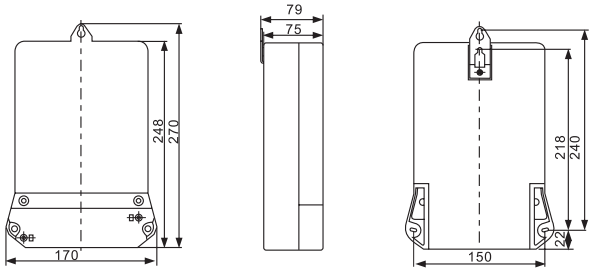
◆ impulse test port diagram



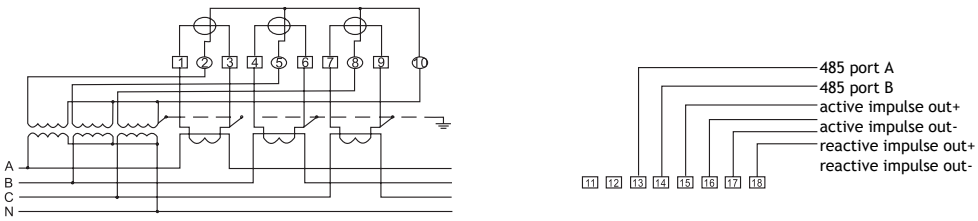
4.Install dimension and connect diagram

shape dimension:270x 170 x79mm

install dimension:240 x 150mm



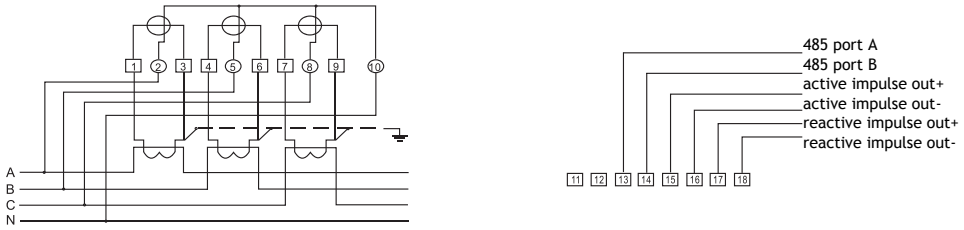
◆power-supply and functional terminal diagram



3-phase 4-line electronic active and reactive meter wiring diagram(current,voltage transformer)

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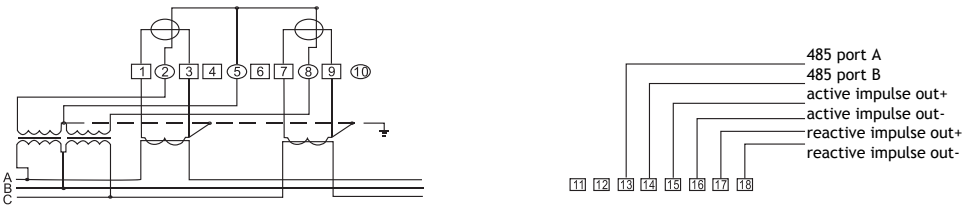
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3-phase 4-line electronic active and reactive combined meter wiring diagram(current transformer)



3-phase 4-line electronic active and reactive combined meter wiring diagram(direct)



3-phase 3-line electronic active and reactive combined meter wiring diagram(current,voltage transformer)



3-phase 3-line electronic active and reactive combined meter wiring diagram(direct)