

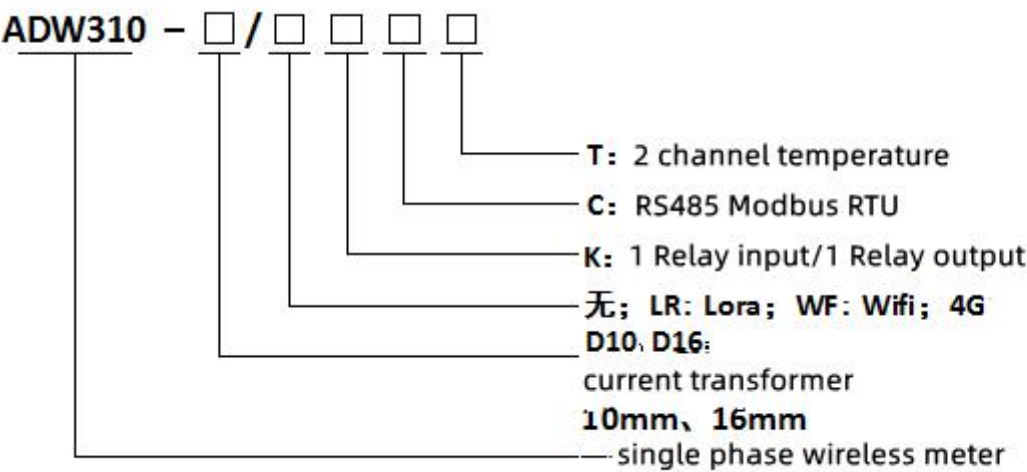
ADW310 Wireless energy meter

1 General

ADW310 wireless meter is mainly used to measure the active electric energy of low-voltage network. It has the advantages of small size, high accuracy, various functions, and many optional communication modes. It can support RS485 communication, Lora, 4G and other wireless communication modes. It adds the current sampling mode of external transformer, which is convenient for users to install and use in different applications. It can be flexibly installed in the distribution panel to meet the requirements of energy monitoring, operation and maintenance supervision or power monitoring for different areas and loads.

2 Product description

2. 1 ADW310 wireless energy meter



2. 2 ADW310 energy meter main function

Table 1 ADW310 main function

Function	Detail
Display	LCD
Energy monitoring	Positive and negative kwh,
Electric monitoring	Voltage,current, power factor,frequency,active power,reactive power,apparent power
Harmonic	Total harmonic, 2-31th harmonic
Pulse	Active energy pulse output
Temperature	2 channel temperature(T)
DI/DO	1DI, 1DO (K)

LED indicator	Pulse indicator
External CT	Split Core CT
Electric parameter Alarm	Under voltage, over voltage, under current, over current, under power, over power etc
Communication	RS485 (C)
	868MHz Lora (LR)
	4G (4G)
	WIFI (WF)

3 Technical detail

3.1 Electric Parameter

Table 2 ADW310 Electric detail

Voltage input	Rated voltage	220V
	Frequency	50Hz
	Power consumption	Each phase<0.5VA
Current input	Input current	AC 20(100)A
	Start current	1%Ib(0.5S class), 4%Ib(1 class)
	Power consumption	Each phase<1VA
Power supply	Power voltage	AC 85~265V
	Power consumption	<2W
Equipment standard	Standard	GB/T17215.322-2008, GB/T17215.321-2008
	Active kwh accuracy	1 class
	Temperature accuracy	$\pm 2^{\circ}\text{C}$
Pulse	Pulse-Width	$80\pm 20\text{ms}$
	Pulse parameter	1600imp/kWh
Communication	Wireless	470MHz LoRa, 4G
	Port	RS485 (A、B)
	Cable	Shielded Twisted Pair
	Protocol	MODBUS-RTU、DL/T 645-07

4 Outshape and installation (Unit: mm)

4.1 Outsize(Unit: mm)

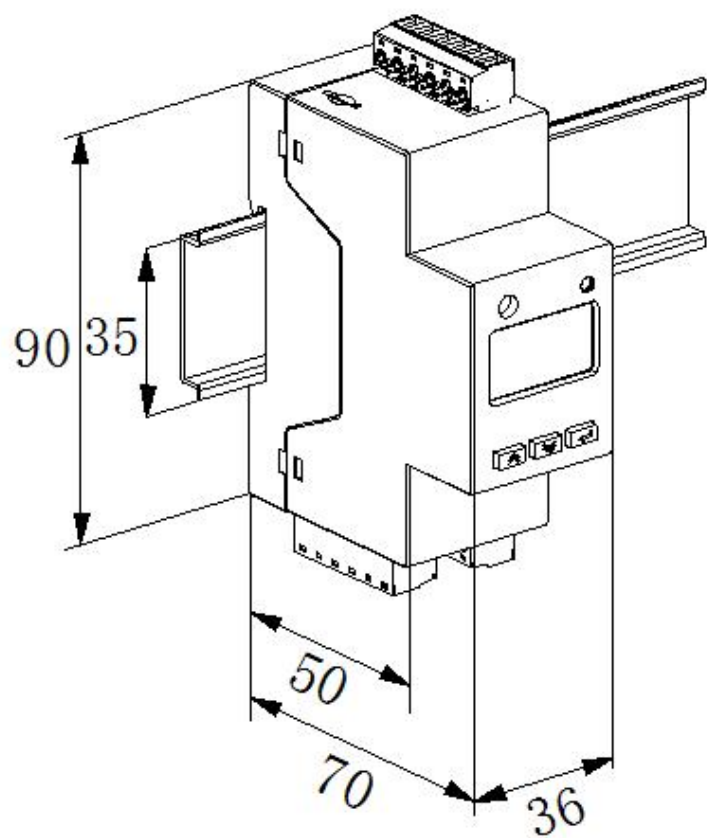
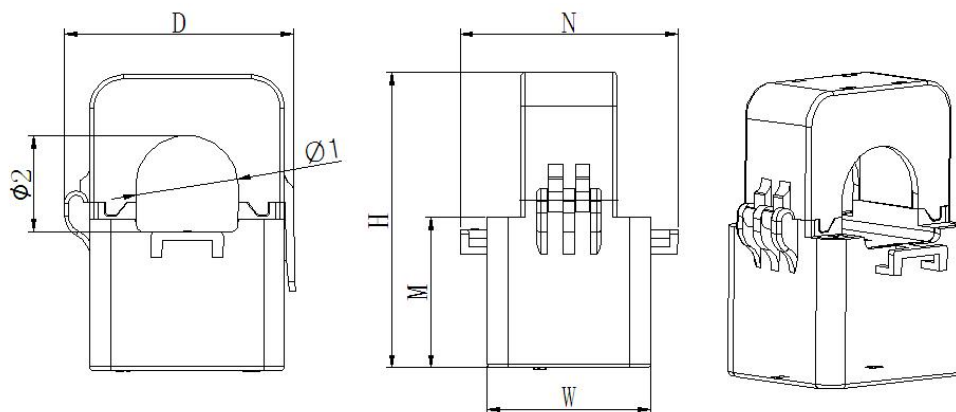


图 1 ADW310 效果尺寸图

(2)current size

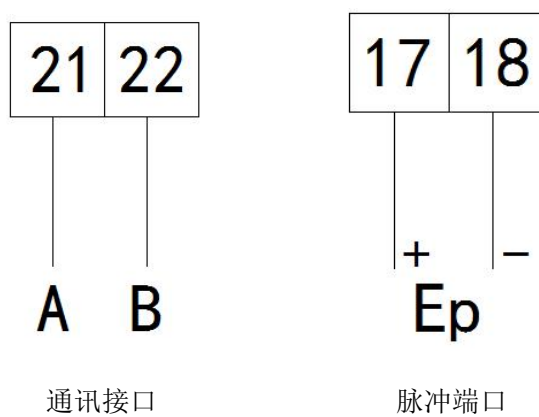
Table 5 CT size

type	Out size (mm)					diameter (mm)		Tolerance (mm)
	W	H	D	M	N	Φ1	Φ2	
AKH-0.66/K-∅ 10N	27	44	32	25	36	10	9	±1
AKH-0.66/K-∅ 16N	31	50	36	27	42	16	17	

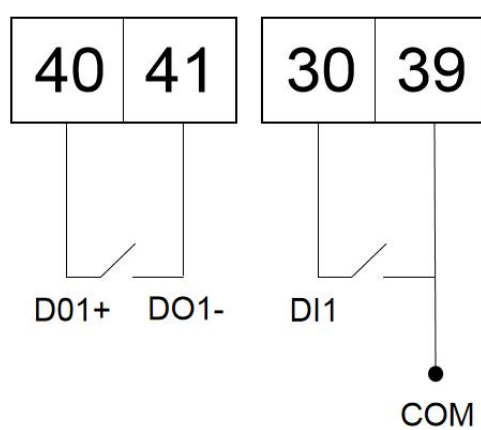


配套互感器尺寸图

4.2 RS485 port and pulse port

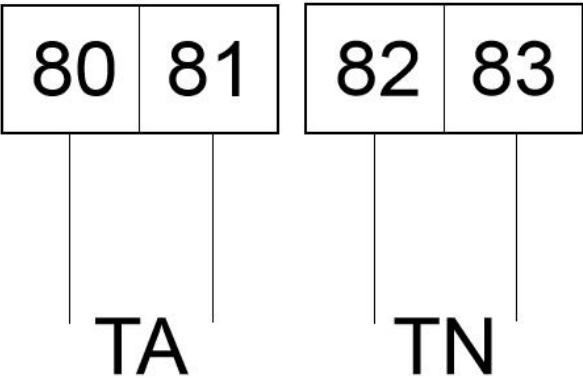


4.3 Relay input and output port



开关量输入输出

4.4 Temperature port



温度输入

4.5 Wiring diagram

