



INSTRUCTIONS

SINGLE-PHASE ELECTRONIC ACTIVE ENERGY METER

I. Introduction

This electronic static single-phase watt-meter is an ideal product with special integrated circuit and SMT production technology. It enjoys: high accuracy, high reliability, high stability, low power consumption, preventing creep, light and compact, strong overload capacity. It is used for metering 50Hz single-phase alternating current energy, and it is a new product for replacing traditional inductance watt-hour meter.

II. Technical parameters (see Tab.1)

Rated voltage:	230V
Rated Current:	5(60)A
Frequency:	50/60Hz
Connection mode:	Direct type
Display:	LCD, Counter
Accuracy class:	1.0
Power consumption:	$\leq 8\text{VA}$, $\leq 0.4\text{W}$
Start Current:	0.4 %I _b
Constant:	3200imp/kWh
Standard:	IEC62052-11, IEC62053-21
Working temperature:	-30—70℃
Storage temperature:	-40—75℃
Average humidity:	$\leq 75\%$

Tab.1

III. Working principle

See Fig.1. When the energy meter is working, the energy consumed by the user is transformed into voltage and current signals, sampled by sample circuits respectively. A pulse signal is then produced by a specialized IC. The pulse signal is directly proportional to power consumption. The MCU records and stores the corresponding energy use. The LCD displays the energy use.

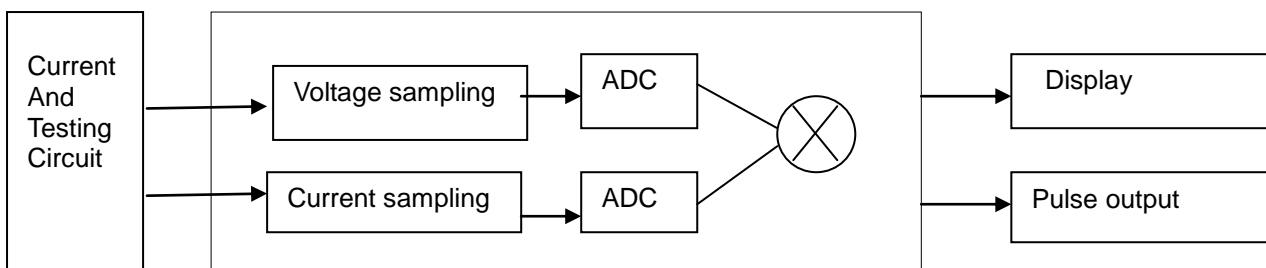


Fig. 1

IV. Outer dimension (see Fig.2)

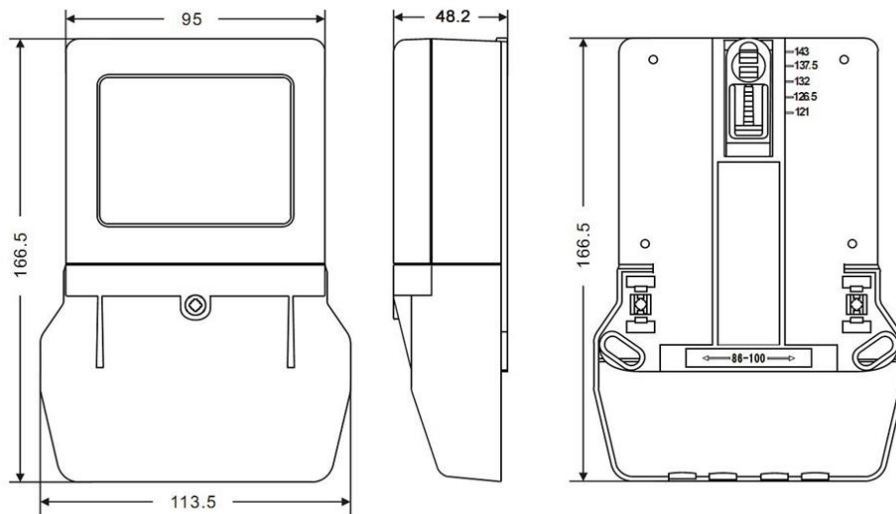


Fig.2

V. Wiring diagram (see Fig.3)

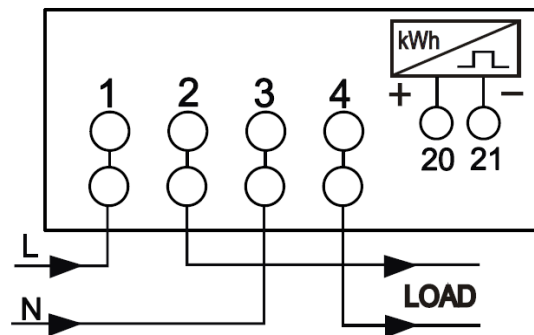


Fig.3

VI. Transportation and handling

1. The meter shall not be subjected to throwing, dropping, kicking or other physical abuse, as there are high precision components inside that will break or make the meter measure in accurately. The process of transportation, handling and installation should be according to transportation and storage rule of GB/T15464-1995.
2. Keep the meter in the original package when stored. The storage temperature range should be 0—40°C. relative humidity $\leq 85\%$. There should be no toxic or corrosive substance or gases in the air.
3. The meters shall be stacked on the platform in storage. Don't stack more than 10 units high.
4. Time limit of guarantee.
Within 18 months from the day of sale, and on the condition that the users abide by the specifications and installation procedures, and the sealing is kept completely intact. If the meter does not correspond with the rule of the enterprise standard, the meter shall be repaired free or replaced.