

# THREE-PHASE FOUR WIRE DIN RAIL ELECTRONIC METER

## I. Standard

The functions of the product meet all the technical requirements of three phase electronic meter in IEC 61036 standard (static AC active power meter).

## II. Principium

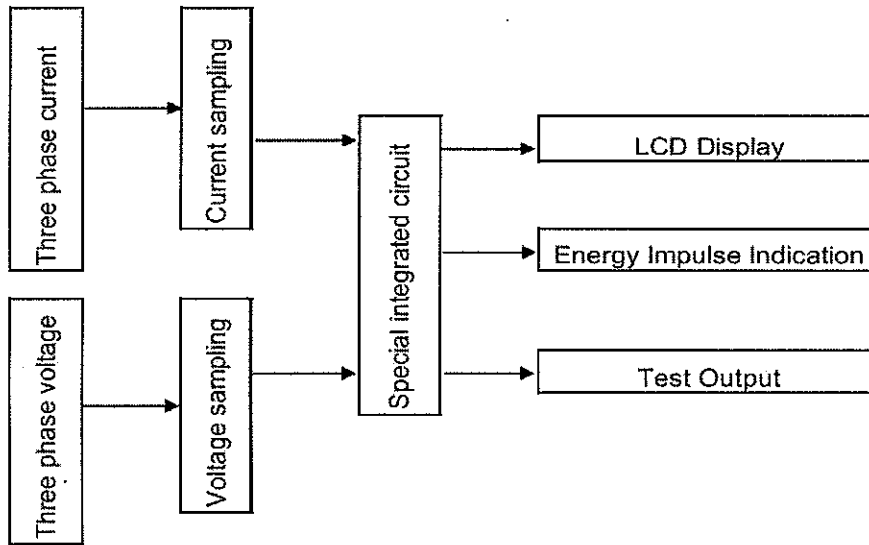


Figure 1

Showing as figure 1, sending the sampling current and sampling voltage into the special IC, through the inner cushion amplifier, deliver to multiplying unit, multiply the voltage signal and current signal. Then through A/D conversion, convert the logic signal to the digital signal, then through frequency dividing circuit and drive circuit, use impulse output of electricity quantity signal for the drive impulse and electro- Indexes.

## III. Technical specification

### 1. Specification

Type	Class	Voltage(V)	Current(A)	Constant	Display
0R-KE-505	1.0	3×230/400	5(80)	1000imp/kwh	LCD6+2

### 2. Startup

The meter can be started and recorded continuously at the reference current(see the table)

Meter	Meter class			Power factor
	1	2	3	
Via mutual inductor	0.004Ib	0.05Ib	0.01Ib	1

### 3. Creep

Its output is less than 1 impulse when the rated voltage is 115% or current loop without current.

#### IV. Electric parameter

Working voltage: 0.9—1.1 Rated voltage  
Utmost voltage: 0.8—1.15 Rated voltage  
Power consumption:  $\leq 2W$  and 10VA

#### V. Weather condition

##### 4.1 Temperature range

Working temperature:  $-20^{\circ}\text{C}$ — $+55^{\circ}\text{C}$

Optional working temperature:  $-40^{\circ}\text{C}$ — $+65^{\circ}\text{C}$

Storage and transportation temperature:  $-25^{\circ}\text{C}$ — $+70^{\circ}\text{C}$

##### 4.2 Humidity range

Average humidity per year:  $\leq 75\%$ , 30 days in one year(pervasion as a natural way), the humidity can reach up to 95%, and it usually can reach 85%

**VI. Exterior dimension:** 100mm×76mm×65mm      Weight: 0.5kg

#### VII. Installation and connection

##### 1. Installation dimension (Figure 2) mm

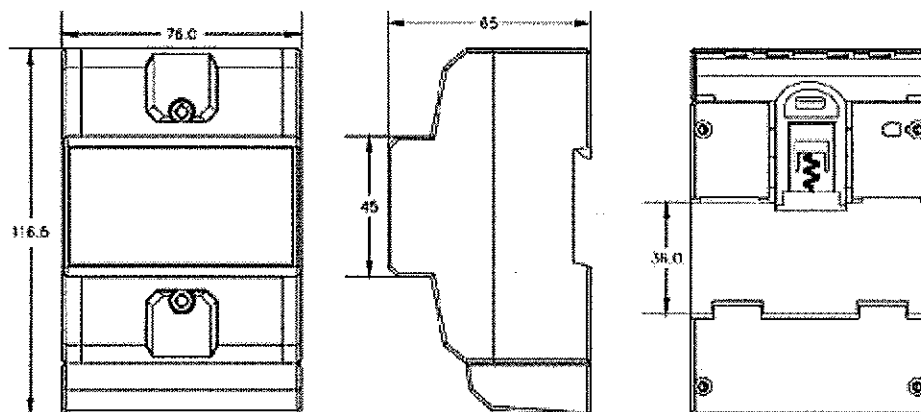
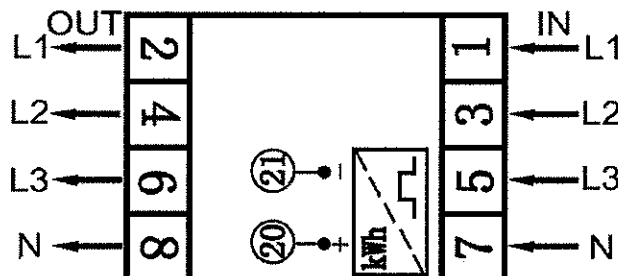


Figure2

##### 2. Connection diagram



Direct connection

#### VIII. Transportation and storage

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  $-25^{\circ}\text{C}$ — $+70^{\circ}\text{C}$ . 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.