

## General

Type GEM011TG single phase electronic DIN rail active energy meter is a kind of new style single phase two wire active energy meter, it adopt micro-electronics technique, and imported large scale integrate circuit, use advanced technique of digital and SMT techniques, etc. The meter completely accord with relevant technical requirements of class 1 single phase active energy meter stipulated in international standard IEC 62053-21. It can accurate and directly measure 50Hz or 60Hz active energy consumption from single phase AC electricity net, it can display total energy consumption by step motor type impulse register. It has following features: good reliability, small volume, light weight, specious nice appearance, convenient installation, etc.



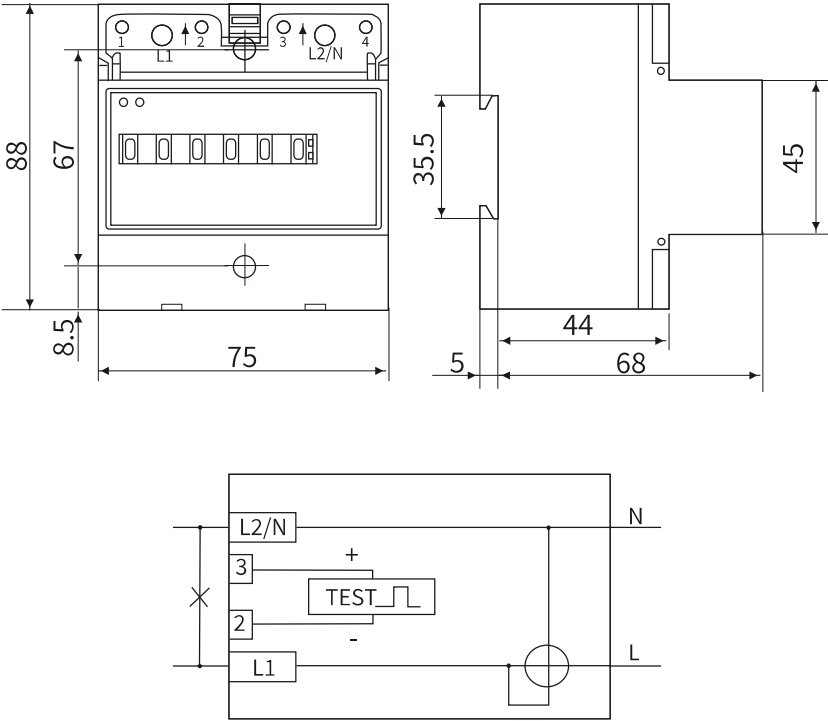
## Functions and features

- 35mm standard DIN rail installation, complying with standard DIN EN50022. Or front board setting (mounting holes center distance 67 mm), users can choose any one by themselves.
- Six pole width (Modulus 12.5mm), complying with standard JB/T7121-1993.
- 5 + 1 digits display (99999.1kWh) by step motor type impulse register.
- Standard configuration one port of pulse output passive (polarity), May select increase a distant port of pulse output passive (nonpolarity). (Product Configuration code is TI). And contact with all kind of AMR system conveniently, Complying with standard IEC 62053-31 and DIN 43864.
- Two LED instructions power supply state (green) and signal of energy impulse (red).
- Standard configuration don't detection direction of the flow of load current. May select automatic detection the direction of the flow of load current. And instructions (Only red energy pulse signal when working, that is meaning the direction of the flow of load current reverse).
- Single direction measure single phase two wire active energy consumption. It is nothing with direction of the flow of load current. Complying with standard IEC 62053-21.
- Directly connect operation, there are two types wiring you may select. Standard configuration type T wiring, may select type S wiring (Product Configuration code is AG).
- Standard configuration short terminals cover, may select extension terminals cover, in order to protect to use safety. (Product Configuration code is TH).

## Technical parameters

| Model    | Accuracy | Reference Voltage(V) | Current specifications(A) | Starting current(A) | Insulation performance                                            |
|----------|----------|----------------------|---------------------------|---------------------|-------------------------------------------------------------------|
| GEM011TG | Class 1  | 127                  | 5(30)                     | 0.02                | AC voltage 4kv for 1 minute,1.2/50us waveform impulse voltage 6kv |
|          |          |                      | 10(50)                    | 0.04                |                                                                   |
|          |          | 230                  | 20(100)                   | 0.08                |                                                                   |

**Dimension and Wiring**



| Terminals      | Note                                                                                      |
|----------------|-------------------------------------------------------------------------------------------|
| L              | Phase line                                                                                |
| N              | Neutral line(Inlet from bottom, outlet from top)                                          |
| 2 and 3        | Port of pulse output passive                                                              |
| Type T wiring: | You needn't cut the cable when wiring, please let the cable through the meter wiring hole |