

General

Model GEM461AG single phase electronic DIN rail anti-steal 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

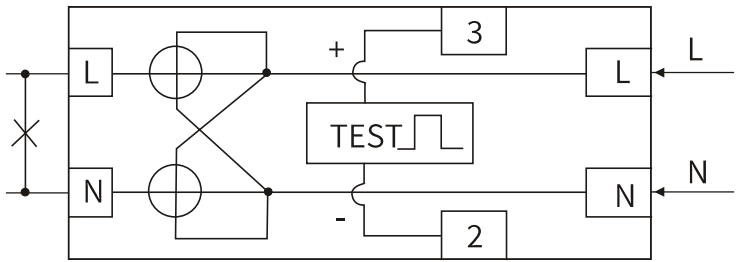
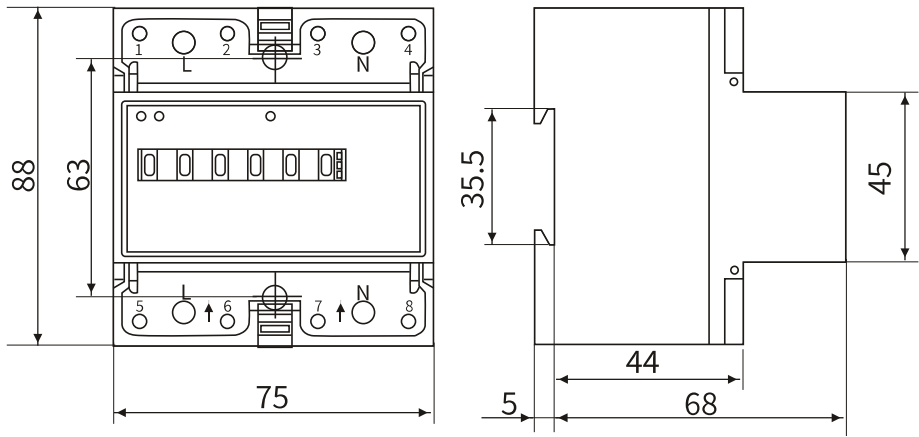
- 35mm standard DIN rail installation, complying with standard DIN EN50022. Or front board installed (mounting holes center distance 63 mm), users can choose any one by themselves.
- Six pole width (Modulus 12.5mm), complying with standard JB/T7121-1993.
- Standard configuration 5 + 1 digits display (9999.1 kWh) by step motor type impulse register. May select 6 + 1 digits display (Product Configuration code is AK).
- Standard configuration one port of pulse output passive (polarity), May select increase a distant port of pulse output passive (nonpolarity). And contact with all kind of AMR system conveniently, Complying with standard IEC 62053-31 and DIN 43864.
- Three LED instructions power supply state (green) and signal of energy impulse (red) and signal of fault (yellow).
- 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 two components 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.
- Automatic detection the current of phase line and neutral line, get the higher value of the current and calculation, when the error of the two current more then 12.5%, automatic show fault signal.
- Direct connect operation, there are two types wiring you may select. Standard configuration type S wiring, may select type T wiring (Product Configuration code is TG).
- Standard configuration short terminals cover, may select extension terminals cover, in order to protect to use safety. (Product Configuration code is AH).

Technical parameters

Model	Accuracy	Reference Voltage(V)	Current specifications(A)	Starting current(A)	Insulation performance
GEM461AG	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

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Terminals	Note
L	Phase line (Inlet from bottom, outlet from top)
N	Neutral line (Inlet from bottom, outlet from top)
2 and 3	Port of pulse output passive