

General

Model GEM011GC 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. This meter has seven digits LCD displays shows the active energy consumption. It has following features: good reliability, small volume, light weight, and there are far infrared and RS485 communication module in it. Contact with all kind of AMR system conveniently. It has following features: Good reliability, small volume, light weight, specious nice appearance, convenient installation, etc.



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Functions and features

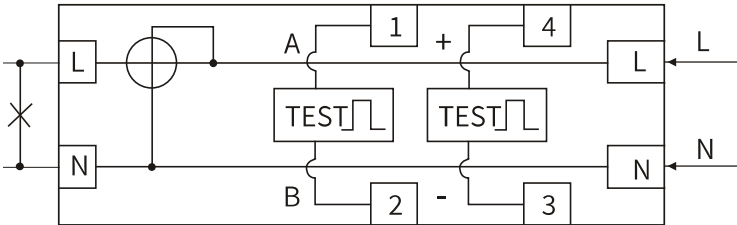
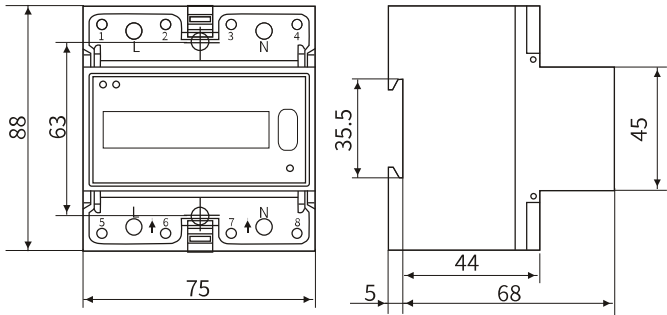
- 35mm standard DIN rail installation, complying with standard DIN EN50022. Or front board setting (mounting holes center distance 63 mm), users can choose any one by themselves.
- Six pole width (Modulus 12.5mm), complying with standard JB/T7121-1993.
- May select 6 + 1 digits display (999999.1kWh) or 5 + 2 digits display, it can be arbitrary set by users from far infrared or port of RS485 data communication.
- Standard configuration one port of pulse output passive (polarity), May select increase a distant port of pulse output passive (nonpolarity), complying with standard IEC 62053-31.
- There are a port of far infrared data communication and a port of RS485 data communication. Standard configuration communication agreement complying with standard DL/T645-1997, can also choose any other communication agreement.
- Three LED instructions power supply state, signal of energy impulse and communication state.
- 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 by an individual LED.
- 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.
- Standard configuration type S wiring (Inlet from bottom, outlet from top) for direct connect operation, we can also choose another type of connection, and use CT (Product Configuration code is FC) and PT & CT (Product Configuration code is EC) for operation.
- Standard configuration short terminals cover, may select extension terminals cover, in order to protect to use safety. (Product Configuration code is GF).

Technical parameters

Model	Accuracy	Reference Voltage(V)	Current specifications(A)	Starting current(A)	Insulation performance
GEM011GC	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
N	Neutral line (Inlet from bottom, outlet from top)
3 and 4	Port of pulse output passive
1 and 2	Port of RS485 data communication