

General

Model GEM021GC three phase four wire electronic DIN rail active energy meter is a kind of new style three phase four 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 three phase active energy meter stipulated in international standard IEC62053-21. It can accurate and directly measure 50Hz or 60Hz active energy consumption from three phase four wire AC electricity net. This meter has seven digits LCD displays shows the active energy consumption. 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.



Functions and features

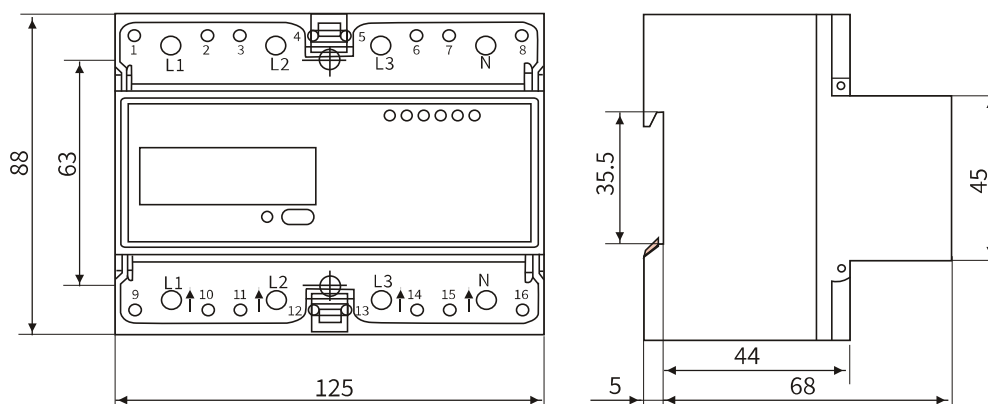
- 35mm standard DIN rail installation, complying with standard DIN EN50022. Or frontboard installed (mounting holes center distance 63 mm), users can choose any one by themselves.
- Ten pole width (Modulus 12.5mm), complying with standard JB/T7121-1993.
- May select 6 +1 digits display (999999.1kWh) or 5 +2 digits display, it can be arbitrary set by users from far infrared or port of RS485 data communication.
- There are a polarity port of pulse output passive closed and a nonpolarity port of pulse output passive distant (the output rate is 10 or 100imp/ kWh, can select). Complying with standard IEC 62053-31 and DIN 43864.
- 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.
- Six LED instructions respectively every power supply state, signal of closed energy impulse and distant energy impulse and data communication state.
- Automatic detection the direction of the flow of load current. And Instructions on individual LED
- Single direction three components measure three phase four 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 wiring, 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
GEM021GC	Class 1	3x127/220	5(30)	0.02	AC voltage 4kv for 1 minute, 1.2/50us waveform impulse voltage 6kv
		3x230/400	10(60)	0.04	
			20(100)	0.08	

Dimension and Wiring

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Terminal	Note
L1	L1 phase line
L2	L2 phase line
L3	L3 phase line
N	Neutral line
7 and 8	Port of pulse output passive closed
5 and 6	Port of RS485 data communication
3 and 4	Port of pulse output passive distant