

General

Model GEM021AC 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 IEC 62053-21. 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

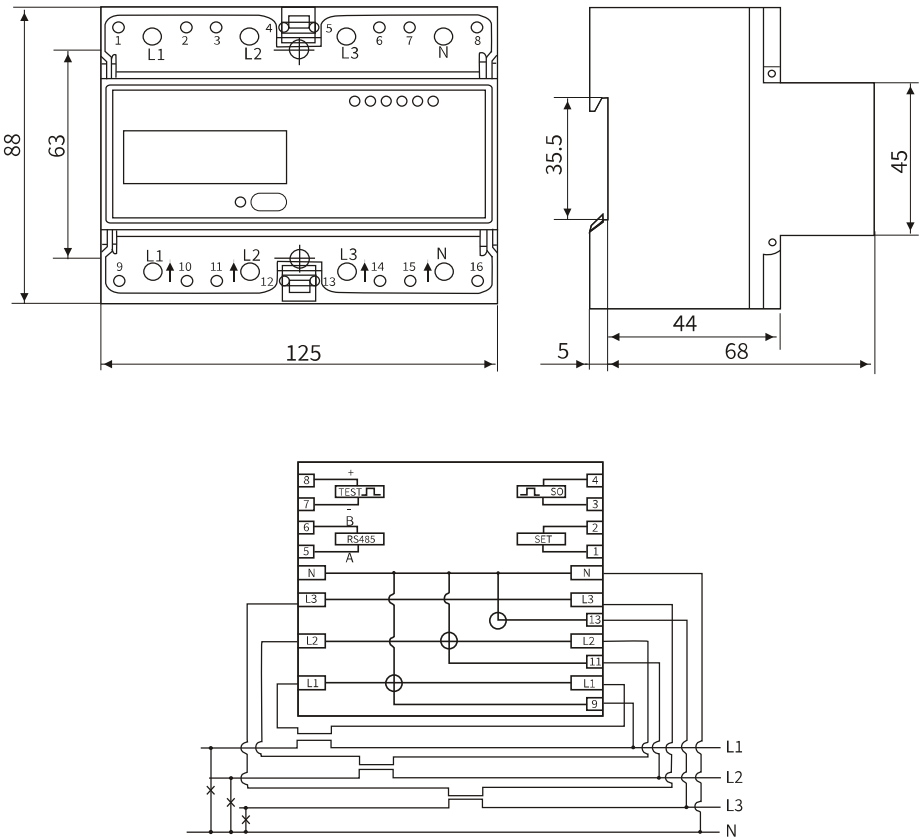
- 35mm standard DIN rail installation , complying with standard DIN EN50022. Or front board installed (mounting holes center distance 63 mm), users can choose any one by themselves.
- Ten pole width (Modulus 12.5mm), complying with standard JB/T7121-1993.
- Type S wiring (Inlet from bottom, outlet from top), use CT connect operation, may select set 27 ratio, after set the meter will direct reading when read, and haven't multiplied by rate of CT.
- Seven digits display LCD, 5 + 2 digits display (99999.91 kWh, only ratio of CT when 5:5 A) or 7digits, it is choose by ratio of CT which is set.
- There are a polarity port of pulse output passive closed and a nonpolarity port of pulse output passive distant (the output rate is 10 kWh/pulse.). Complying with standard IEC 62053-31 and DIN 43864.
- Standard configuration there are a port of far infrared data communication and a port of RS485 data communication. Communication agreement complying with standard DL/T645-1997, can also choose without function of data communication. (Product Configuration code is NC).
- 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 LCD.
- 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 short terminals cover, may select extension terminals cover, in order to protect to use safety. (Product Configuration code is AF).

Technical parameters

Model	Accuracy	Reference Voltage(V)	Current specifications(A)	Starting current(A)	Insulation performance
GEM021AC	Class 1	3x127/220	CT/5A	0.01	AC voltage 4kv for 1 minute, 1.2/50us waveform impulse voltage 6kv
		3x230/400			

Dimension and Wiring

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Terminal	Note
L1	L1 phase CT
L2	L2 phase CT
L3	L3 phase CT
	(Inlet from bottom, outlet from top)
7 and 8	Port of pulse output passive closed
15 and 16	Port of pulse output passive distant
9	L1 phase line
11	L2 phase line
13	L3 phase line
N	Neutral line
5 and 6	Port of RS485 data communication
1 and 2	Port of CT ratio which is set