

General

Model GEM421GC three phase four wire electronic DIN rail active and reactive integration 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 and class 2 three phase reactive energy meter stipulated in international standard IEC 62053-23. It can accurate and directly measure 50Hz or 60Hz active and reactive energy consumption from three phase four wire AC electricity net, it can display total energy consumption by step motor type impulse register. This meter has seven digits LCD displays shows active energy. 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

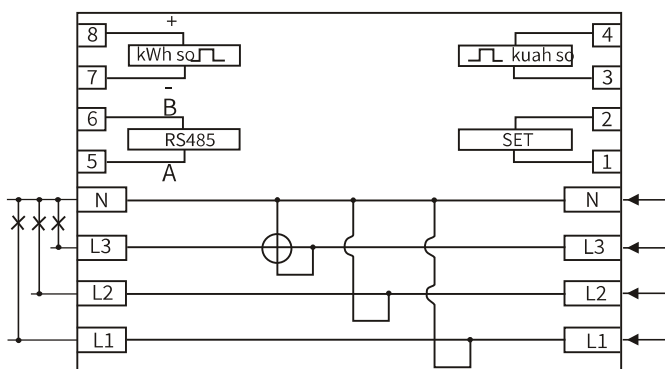
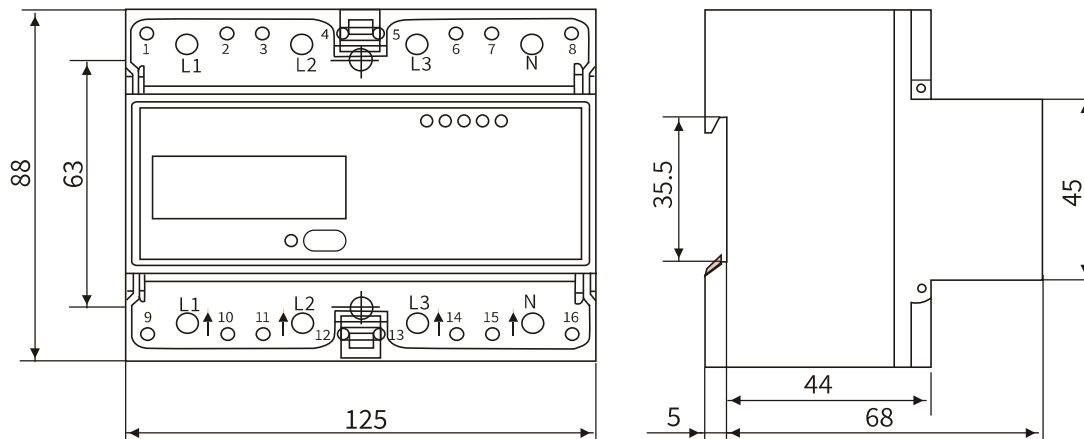
- 35mm standard DIN rail installation, complying with standard DIN EN50022. Or frontboard installed (mounting holes center distance 63 mm), users can choose any one by themselves.
- Ten pole width (Modulus 12.5mm), complying with standard JB/T7121-1993.
- May select 6 + 1 digits display (999999.1kWh, default) or 6 + 1 digits display, users can choose any one by themselves form far infrared or port of RS485 communication.
- Standard configuration one port of active pulse output passive and one port of reactive pulse output passive (polarity), The output rate are 0.01, 0.1, 1, 10kWh or kvarh/Pulse. Users can choose any one by themselves. May select one port of active pulse output passive and one port of reactive pulse output passive (nonpolarity). And contact with all kind of AMR system conveniently, Complying with standard IEC 62053-31 and DIN 43864. (Please specified when ordering)
- There are far infrared and a port of RS485 communication data, communication agreement complying with standard DL/T645-1997. May select any other communication agreement.
- Six LED instructions every power supply state and signal of active energy impulse and reactive energy impulse and data communications state.
- Automatic detection the direction of the flow of load current. And instructions by one LED.
- Single direction three components measure three phase four wire active and reactive energy consumption. It is nothing with direction of the flow of load current. Complying with standard IEC 62053-21 and IEC 62053-23.
- Standard configuration type S wiring (Inlet from top, outlet from bottom), directly connect operation, may select 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
GEM421GC	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

46



Terminal	Note
L1	L1 phase line
L2	L2 phase line
L3	L3 phase line
N	Neutral line
7 and 8	Port of active pulse output passive
5 and 6	Port of RS485 data communication
3 and 4	Port of reactive pulse output passive
1 and 2	Port of set SO output pulse rate