

General

Model GEM031CL single phase electronic multi-rate DIN rail active energy meter is a kind of single phase two wire two tariffs (tariff conversion is controlled by timer outside or similar equipment) active energy meter. 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 various consumption data and information. It has following features: good reliability, small volume, light weight, specious nice appearance, convenient installation, etc.



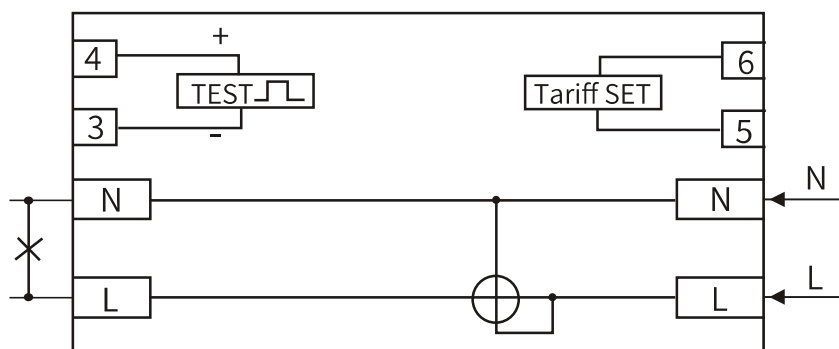
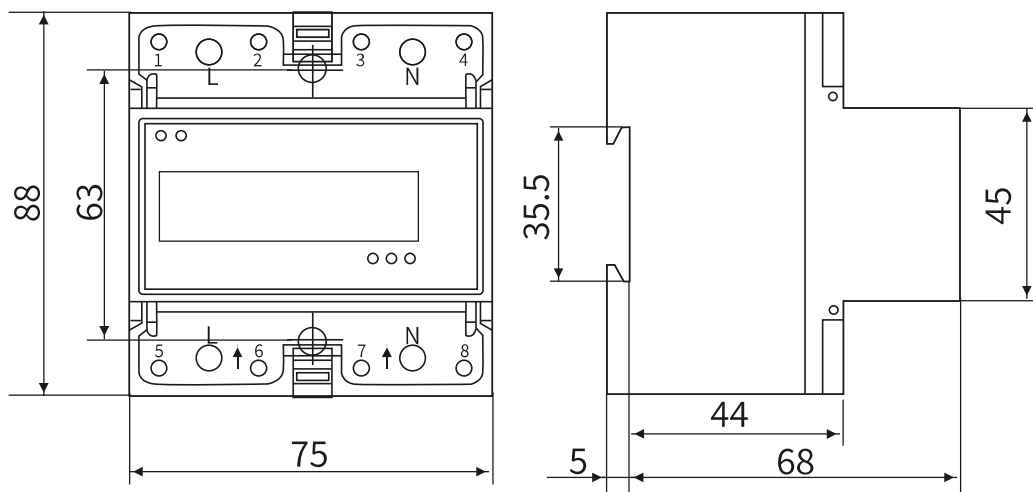
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Functions and features

- 35mm standard DIN rail installation, complying with standard DIN EN50022. Or front board 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.
- Have two tariffs, and port of set the tariff, input control voltage 0-90 Vac, set up tariff F1, input control voltage 150-400 Vac, set up tariff F2, the tariff conversion is controlled by timer outside or similar equipment.
- Standard configuration type of cycle display, cycle display is 5 seconds. It can display 6 data at most. Can select the data which displayed. (Please specified when ordering). The decimal median which displayed can choose set one or two. (Default two decimal, please specified when ordering)
- Use memory that is not loss easy, the data can be kept forever after blackout.
- Standard configuration pulse output passive (polarity), May select distant impulse output passive (nonpolarity). And contact with all kind of AMR system conveniently, Complying with standard IEC 62053-31 and DIN 43864.
- There are far infrared and a port of RS485 communication data. It is use for setting and reading the meter, communication agreement complying with standard DL/T645-1997.
- Five LED instructions respectively power supply state, signal of power impulse, the direction of the flow of load current and the state rates just now.
- 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 wiring, and use CT (Product Configuration code is CN) and PT & CT (Product Configuration code is CP) for operation.
- Standard configuration short terminals cover, may select extension terminals cover, in order to protect to use safety. (Product Configuration code is CM).

Technical parameters

Model	Accuracy	Reference Voltage(V)	Current specifications(A)	Starting current(A)	Insulation performance
GEM031CL	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	



Terminals	Note
L	Phase line
N	Neutral line (Inlet from bottom, outlet from top)
5 and 6	Port of set the tariff,
3 and 4	Port of pulse output passive