

MULTI-GEM 12

CHARACTERISTICS

- Multi channel power meter (Multi-GEM 12) is able to measure and monitor multi electric power loads.
- Max 12 single phase or 4 3P4W feeders power monitoring
- Measurement : V (L-N, L-L) , A, Hz, PF, Unbalance, Power(P,Q,S), Energy (P,Q,S).
- 1.0/0.5 Class accuracy for power measurement conformed by IEC61557-12
- Flexible application for the single phase/ 3phase 4wire / 3phase 3wire power line.
- Sag/Swell / Over Current / Temp Alarm.
- Total Harmonics Distortion (THD)
- Support Ethernet (Modbus TCP) and Wi-Fi.
- Support Cloud energy platform.
- Compact size for easy installation in narrow space (62 x 96 x 56 mm)

SPECIFICATIONS

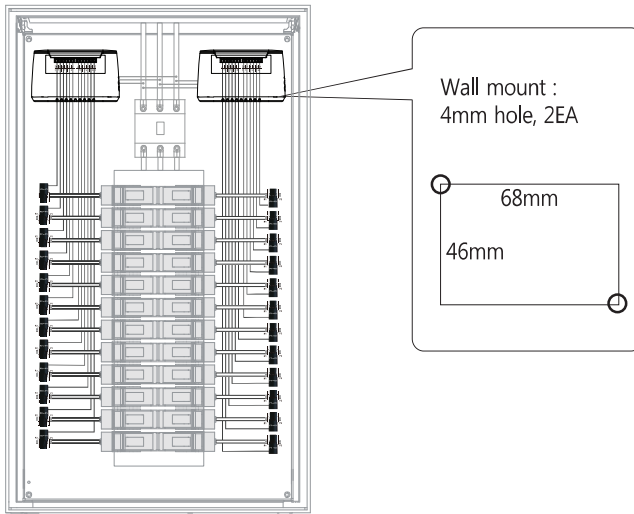
Model		Multi-GEM12
Power system		3P3W, 3P4W, 1P2W, 1P3W
Power Input		100~240 VAC, Max. 50/60 Hz
Measuring Inputs Rating	Voltage	Max.415V~3~ L-L (240V L-N), CAT III Max. 1000 A, 3~
	Frequency	50/60 Hz
	CT type	100mA or 333mV
Communication		LAN Wi-Fi (Option)
Usage		Indoor
Altitude up to		2,000 m
Operating Temperature		-10°C~55°C
Storage Temp.		-25°C~70°C
Humidity		Maximum relative humidity 80% R.H. for temperatures up to 31 °C decreasing linearly to 50 % R.H. relative humidity at 40 °C
Standards		IEC 62053-21/22

BRANCH CIRCUIT POWER METER

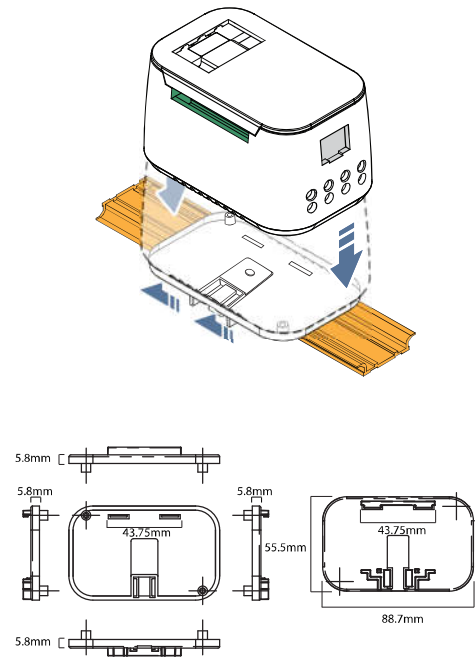


INSTALLATION

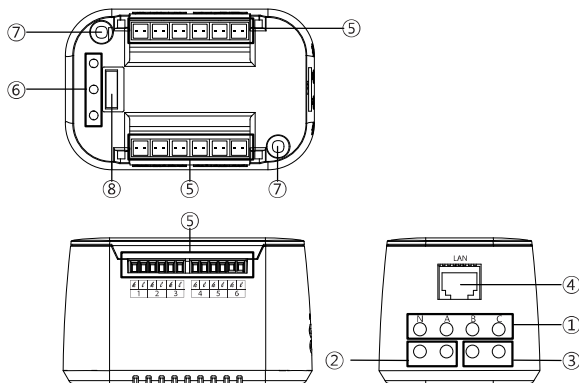
◆ Mounting on Din rail



Item	Condition
Location	Indoor
Operation temp,	-10°C to 55°C [14°F to 122°F]
Storage temp,	-25°C to 70°C [-13°F to 158°F]
Operation humidity	Non condensation, 5% R.H. to 80% R.H.



NAME OF PARTS

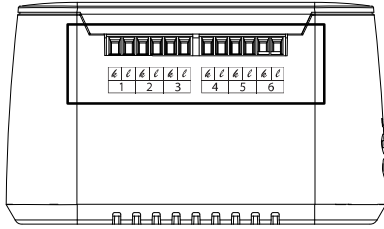


No.	Name	Description																																			
1	Screw fixing holes	Screw holes for fixed terminals																																			
2	Control Power	Supply the control power to the gems 3512 (AC/DC 100~240V), Wire Size : 12 ~ 24AWG																																			
3	Voltage Input	Voltage input terminal for measurement , Wire Size : 12 ~ 24AWG																																			
4	Ethernet Port	Communication with Master (Modbus Slave) Protocol : Modbus TCP/IP Speed : 10/100 Mbps Automatic selection																																			
5	CT Port	CT Input Terminal																																			
6	Status LED	Cloud Version																																			
		<table border="1"> <thead> <tr> <th rowspan="2">상태</th> <th colspan="3">LED</th> </tr> <tr> <th>LEFT</th> <th>CENTER</th> <th>RIGHT</th> </tr> </thead> <tbody> <tr> <td>Power connection</td> <td colspan="3">ON</td> </tr> <tr> <td>WiFi router connection ready (Soft AP)</td> <td colspan="3">ON</td> </tr> <tr> <td>WiFi router connection ready</td> <td>BLK</td> <td>OFF</td> <td>OFF</td> </tr> <tr> <td>The connection attempt to the Cloud</td> <td>OFF</td> <td>BLK</td> <td>OFF</td> </tr> <tr> <td>Device Authentication after the Cloud connect</td> <td>OFF</td> <td>OFF</td> <td>BLK</td> </tr> <tr> <td>Equipment installation complete</td> <td>OFF</td> <td>GLOW</td> <td>OFF</td> </tr> <tr> <td>Firmware Update</td> <td colspan="3">BLK</td> </tr> </tbody> </table>	상태	LED			LEFT	CENTER	RIGHT	Power connection	ON			WiFi router connection ready (Soft AP)	ON			WiFi router connection ready	BLK	OFF	OFF	The connection attempt to the Cloud	OFF	BLK	OFF	Device Authentication after the Cloud connect	OFF	OFF	BLK	Equipment installation complete	OFF	GLOW	OFF	Firmware Update	BLK		
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7	Wall mount	Bolt spec : D = 4mm / L = 55mm																																			
8	Upgrade Port	Upgrade Port																																			

BRANCH CIRCUIT POWER METER

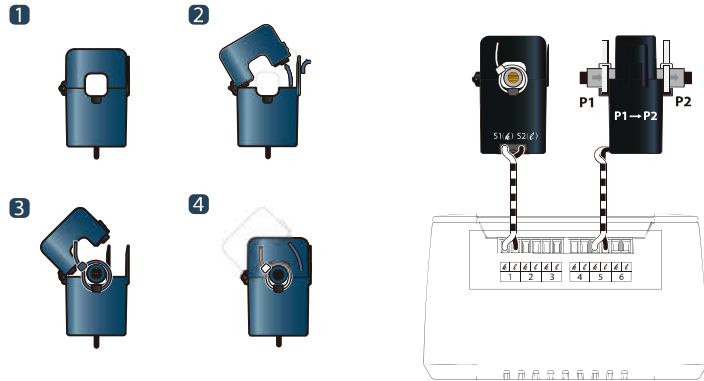


NAME OF PARTS



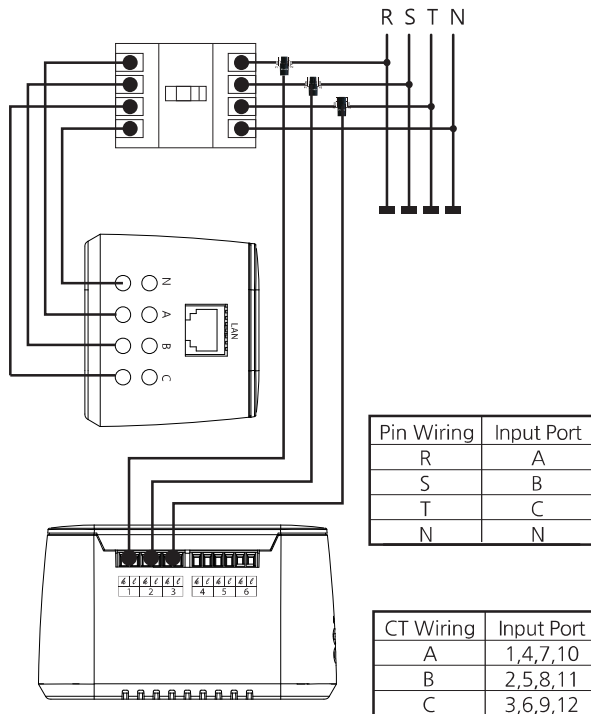
◆ Example of CT wiring

How to use >>>



CT INPUT TERMINAL

◆ Wiring of 3Phase 4Wire system



◆ Wiring of 3Phase 3Wire system

