EGO700 Multi Function Power Meter For IOT

Installation & Operation Manual

V1.0





Safety Precautions:

A General Warnings:

- This equipment can only be installed by professionals
- The manufacturer will not be responsible for any failure caused by NOT following the instructions in this manual

A Danger Warnings of Electric Shock, Combustion or Explosion:

- Equipment can only be installed and maintained by qualified people
- Before any operation of the equipment, the voltage input and power supply shall be isolated and the secondary windings of all CT shall be short circuited
- Use a qualified voltage detection device to confirm that the voltage has been cut off
- All mechanical parts, doors and covers shall be returned to their original positions before powering-on the equipment
- The equipment shall be provided with correct rated voltage in use

Failure to pay attention to these precautions may cause serious injury!!

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Chapter 1 Product Overview

EGO700 Multi Function Power Meter For IOT is mainly applicable to the distribution cabinet and switch cabinet in the high and low-voltage distribution system lower than AC 650kV (phase voltage). It can communicate with RS485 / MODBUS bus to manage the meter network and realize automatic control.

The product performance fully meets the relevant technical requirements of GB / T 17215.322-2008 for active power level 0.5s and GB / T 17215.323-2008 for reactive power level 2.

The product mainly realizes the following functions:

- Full power measurement: three phase voltage, current, active power, reactive power, apparent power, power factor, frequency, voltage and current angle, cable temperature and residual current
- Energy metering: bidirectional electric energy, historical electric energy
- Demand function: real time demand, daily maximum demand and monthly maximum demand
- Power quality: 63th harmonic analysis, voltage and current content, THD, imbalance;
- Alarm: over voltage, under voltage, over-current, under current, phase loss, frequency too high, frequency too low, power too high, switch value 1 off, etc
- Data record: historical electric energy for lately 10 years, 12 months and 31 days
- Event record of electric parameter maximum value: event record with time scale and operation record
- Communication: 1-way RS485 communication is provided as standard, 4G / Lora can be selected for infrared communication, MODBUS, HTTP, Mqtt and other communications are supported, and MODBUS custom register is supported
- Switch value input: one active switch input is provided as standard
- ◆ Temperature of cable: 4-way 0-150 °C cable temperature measurement
- Residual current: 1-way 0-8000ma residual current measurement

Chapter 2 Product Selection

EGO700 - 🗆 - 🗆				
	$(1) \qquad (2)$			
Communicat	Communication mode			
RS485	1-way RS485 (default)			
4G	Lte(4G All netcom)、RS485			
LoRa	LoRa, RS485			
All	Lte(4G All netcom), LoRa, RS485			
Current transformer access				
СТО	External 5A open current transformer (default)			
CTC	External 5A closed current transformer module			

Note: EGO700 is compatible with $3 \times 57.7/100V$ and $3 \times 220/380V$ rated voltage input.

Example: EGO700-4G-CTO: Three-phase multi-functional power meter equipped with 1-way active switch quantity input, 4-way cable temperature, 1 channel residual current, 1-way 4G communication and 1-way RS485 communication external 5A open current transformer access.

Chapter 3 Dimension

3.1 Main part dimensions

Unit:mm



3.2 CTC closed current transformer module dimensions

Unit:mm



3.3 CTO current transformer dimensions

Unit:mm



3.4 Host installation dimensions



3.5 Host with CTC module installation dimension drawing

Unit:mm



Unit:mm

Chapter 4 Display and key operation instructions

4.1 Real-time measurement data display structure

(1) Real-time measurement data shall be displayed in the form of main menu and sub-menu

(2) Menu tree diagram

(1) P the main menu by the button \checkmark



4.2 All show figure

- 1、Function title;
- 2、Unit display area;
- 3、4G signal display icon;
- 4、The 4G signal strength;
- 5. Main data display area;

- (11) (1)(2)(3)(4)Pilot EGO700 Pílot Multi Function Power Meter For IOT 相电压(V) ¶』强 (5)A B C 220.01 よ 220.02 ļ 返回 220.03 IR RUN LINK TX RX (10)(6) (7) (8) (9)
- 6, Running indicator light: Flashing while

running;

- 7. Network connection light: always on when connected to the Internet;
- 8、RS485/Lora sending indicator light: flashing when the device sends;
- 9、RS485/Lora receiving indicator light: flashing when the device receives;
- 10、 Infrared transceiver;
- 11、 Antenna connector.

Note:

 $(\mathbf{\vee})$

If there is no button operation on the homepage in 180s, the screen will be off and the screen will not be lit again until there is a button pressed. If there is no button pressed on other pages in 180s, the screen will jump to the homepage.

4.3 Button instruction

In different interfaces, the same button has different functions.

- ♥ Next key: Change value when switching/programming in peer menu
- Enter key: Move the cursor to the left when switching submenus/programming in the peer menu

Key combination: Ruturn/Switching between real-time pages and programming pages

4.4 Setting parameter description

Meter programming

EGO700 can be programmed with the following parameters:

Programmable item		
Meter address	Communication BPS	
CT ratio	PT rario	
Connection modes	Manual phase sequence adjustment	
Automatic phase sequence adjustment	Remove power	
language	Demo mode	

Meter programming needs to verify the password, the initial password is 01.

 Meter communication address: Press the combination key to enter the interface of meter communication address, as shown in the figure below. Range of mailing address setting: 1~247



 Communication Baud rate: press the button v to enter the interface of communication Baud rate, as shown in the figure below. Baud rate can be set: 2400, 4800, 9600, 19200, 38400, 51200.



6. Manual phase sequence adjustment: press the key to enter the manual phase sequence adjustment interface, as shown in the figure below

手动相序调整	¶』强
Uala	la
UbIb	lb
UcIc	lc

 CT ratio: Press the key to enter the CT ratio interface, as shown in the figure below. Set according to field CT. CT ratio setting range: 1.00~100000.00



 PT ratio: Press the key v to enter the INTERFACE of PT ratio, as shown in the figure below. Set according to site PT. Setting range of PT ratio: 1.00~10000.00.



5. Wiring mode: Press the key to enter the wiring mode interface, as shown in the figure below. According to the field connection mode, the connection mode can be set as 3D4Y(three phase four wire), 3D3Y(three phase three wire).

接线模式	Ⅻ 强
	3D4Y

9 Language: Press the key to enter the setting interface of power clearing, as shown in the figure below. Select CH for Chinese display and EN for English display.



10.Demo mode: Press the key to enter the demo mode setting interface, as shown in the figure below. Select "YES" to turn demo mode on and "NO" to turn demo



- Operation examples
- Switch between real-time data page and edit menu:



• How to access the Programming menu:



• How to modify the voltage PT ratio, after entering programming menu, the



following process into voltage PT ratio the Settings menu:

Chapter 5 Measurement performance

5.1 Voltage

For EGO700 voltage measurement, the maximum direct-connected phase voltage is 400V, and line voltage is 500V. The user should pay attention to this when designing to prevent saturation of the internal measurement loop, resulting in inaccurate measurement and even damage to the meter. Higher voltage needs to be connected through PT. The meter can set PT ratio, and the maximum measurable phase voltage on the primary side is 650kV. The voltage connection mode can be set through the panel or communication, and supports star and delta modes.

5.2 Current

EGO700 must use CT to measure current. The secondary rated output of CT needs to meet the rated current input requirement of EGO700 (5A). When wiring the external CT, prevent the CT output from being open, otherwise a higher voltage will be generated in the secondary under the action of the primary excitation, causing personal injury or death or equipment damage.

The direct access current of EGO700 current measurement channel is 0~6.5A,

and the theoretical maximum measurement current of CT primary side is 500000A. The user should pay attention to this point when designing to prevent saturation of the internal measurement loop, resulting in inaccurate measurement.

5.3 Frequency

When EGO700 works in different measurement modes, the acquisition channels of frequency measurement are different. In the triangle mode, EGO700 measures frequency through the AB line voltage channel by default; in other modes, EGO700 measures frequency through the A phase voltage channel. If phase A lacks phase, phase B is selected. If phase A and phase B are missing, take phase C.

5.4 Demand parameters

5.4.1 Real-time demand

Real-time demand is the value of accumulated electrical parameters divided by the length of time in a time period.

EGO700 provides two demand calculation modes: fixed mode and slip mode. In any mode, the demand period can be set (5 minutes, 10 minutes, 15 minutes, 30 minutes, 60 minutes). In the fixed mode, the slip time is meaningless; in the slip mode, the slip time can be set (1 minute, 2 minutes, 3 minutes, 4 minutes), but it needs to meet the requirement that "the demand period is 5 of the slip time The relationship of integer multiple of "is shown in the following table.

Calculation period (minutes)	Adjustable sliding window size (minutes)
5	1
10	1、2
15	1、3
30	1, 2, 3

60	1, 2, 3, 4
----	------------

EGO700 provides three-phase current, three-phase active power, total active power demand calculation for a total of 7 electrical parameters, and maximum demand records. The demand value can be viewed through display or communication, and the demand maximum value record clearing operation is provided.

The following figure shows the calculation method of the demand fixed mode:



5.4.2 Maximum daily demand

EGO700 provides the function of the maximum amount needed, can record the most value of the amount needed on that day, can obtain through communication. Once the time crosses the day, the maximum daily demand of the previous day will be cleared 0.

5.4.3 Maximum monthly demand

EGO700 provides month maximum demand function, can record the demand of that month the most value, can obtain through communication. Once the time crosses the month, the maximum monthly demand of the last month will be cleared 0.

5.5 Electric energy

The active and reactive input and output power of EGO700 can accumulate up to

999999999.9kWh, and display one decimal place. When the accumulation reaches the highest value, it will automatically flip.

5.6 History of electricity energy

EGO700 provides the historical electric energy of the latest 31 days, the historical electric energy of the last 12 months and the historical electric energy of the latest 10 years. The data saved is the total active electric energy.

5.7 Harmonic

EGO700 can measure the complete 63 times voltage and current harmonics and their total harmonic content THD, total even harmonic content TEHD and total odd harmonic TOHD. The harmonic data is given according to the percentage data of the fundamental wave, with a decimal number, that is, the value of the fundamental wave is fixed as 1000, which means it accounts for 100.0% of the effective value of the fundamental wave, and the rest!

Total harmonic content THD refers to the sum of the higher harmonics except the fundamental wave, press the following formula to calculate

$$THD = \sqrt{\sum_{i=2}^{i=n} X_i^2}$$

In the formula: \dot{l} indicates the harmonic order

- X_i indicates the percentage of the effective value of each harmonic to the effective value of the fundamental wave
- n indicates the highest harmonic order, here should be 63

5.8 Unbalance

In an ideal three-phase power supply system, the ABC three-phase voltage and

current amplitude are equal, and the phase difference is 120°, and it is in a balanced state at this time. When the actual system deviates from the above situation, the problem of imbalance and the corresponding reduction of power utilization efficiency will occur.

EGO700 can measure the positive sequence, negative sequence and zero sequence amplitude of voltage and current, and calculate and analyze the voltage and current imbalance.

The voltage and current unbalance calculation formula is as follows:

Voltage unbalance=(Negative sequence component of voltage/Positive sequence component of voltage)x100%

Current unbalance = (current negative sequence component/current positive sequence component) x 100%

The zero sequence current I_0 calculation formula is as follows:

$$I0 = \frac{\sqrt{(Ia \times \sin ia + Ib \times \sin ib + Ic \times \sin ic)^2 + (Ia \times \cos ia + Ib \times \cos ib + Ic \times \cos ic)^2}}{3}$$

In the formula:

Ia stands for A phase current Ib stands for B phase current Ic stands for C phase current ia represents the phase angle of phase A current ib represents the phase angle of phase B current ic represents the phase angle of phase C current

5.9 Fixed value alarm

The fixed value alarm parameters of the EGO700 device can be set by the host computer software through communication. When an alarm event occurs, the alarm type can be read through communication. There are 22 groups of monitored alarm objects, and each group of parameters includes the following:

(1) Action mode: on/off.

When this monitoring is enabled, the alarm object will monitor and alarm.

(2) Action value: the action value and return value of the over-limit trigger.

For the upper limit, when the measured value is greater than the action value, takes action, and when the measured value is less than the action value, returns;

For the lower limit, when the measured value is less than the action value, takes action,, and when it is greater than the action value, returns;

(3) Action delay time: the time to delay action after the limit is exceeded.

The setting range of the action delay time is $0\sim 120$ s.

Monitoring and alarm objects include: A-phase voltage upper limit, B-phase voltage upper limit, C-phase voltage upper limit, A-phase voltage lower limit, B-phase voltage lower limit, C-phase voltage lower limit, phase loss, A-phase current upper limit, B-phase current upper limit, C-phase Current upper limit, A phase current lower limit, B phase current lower limit, C phase current lower limit, total active power upper limit, frequency upper limit, frequency lower limit, residual current upper limit, first circuit temperature upper limit, second circuit temperature upper limit, third circuit temperature upper limit, The fourth circuit temperature upper limit, DI is disconnected.

When the monitoring object meets the action conditions, it also needs to meet the time regulation to be truly activated. During the entire delay period, if the monitored object returns within the limit, the monitoring alarm will not be activated. The unit of action delay is second, and the value range is $0 \sim 120$. Setting 0 means that once the monitored object exceeds the limit, the alarm channel will be activated immediately.

For example: Monitor the upper limit of the A phase voltage and the lower limit of the A phase voltage at the same time. If the voltage exceeds 120% of the rated voltage for 5 seconds, an alarm is required, and if the voltage is lower than 80% of the rated voltage for 3 seconds, an alarm is required. The settings are as follows:

Setting Items	Value
A - phase voltage upper limit action mode	open
A - phase voltage upper limit action value	120

Action time of A phase voltage upper limit	5s
The action mode of A phase voltage lower limit	open
The action value of A phase voltage lower limit	80
A - phase voltage off-line action time	3s

The figure below describes the above and below situations . The rated voltage is 220V, the upper limit is set at 120% of the rated voltage, the upper limit alarm value is 264V, and the lower limit is set at 80% of the rated voltage, and the lower limit is 176V. When the A-phase voltage value continues to be larger than the upper limit 5s, the alarm is triggered, and the alarm is immediately cancelled when it is lower than the upper limit. When the A-phase voltage value continues to be lower than the lower limit 3s, the alarm will be immediately cancelled.



5.10 Phase sequence adjustment

5.10.1 Manual phase sequence adjustment

The user can adjust the phase sequence of the current channel corresponding to the voltage channel according to the field wiring;

5.10.2 Automatic phase sequence adjustment

The phase sequence can be adjusted automatically by one-key operation through

the meter interface.

[Note] The automatic phase sequence adjustment needs to meet the following conditions: Under normal working conditions, the wiring mode is three-phase three-wire mode and the A/B/C three-phase power factor is greater than 0.8;

6 Input-output characteristics

6.1 Switch value input

EGO700 comes standard with 1-way active switch value input, which is suitable for monitoring status information of circuit breaker and switch. External active switch value.

When the external node is closed, the switch input is displayed as closed, and the internal state information is set to 1; when the external node is disconnected, the switch input is displayed as opening, and the internal state information is set to 0.

Parameter		Range		
	Rated working power	AC 85~265V or DC 100~300V		
	supply			
	Power consumption	$\leq 2W/5VA$		
Rated	Rated input current	1.67mA , Standard external 5A/1.67mA current		
working		transformer		
parameters	Rate input voltage	3x220/380V 40Hz~70Hz		
	Active switch input	220V, If it is less than 60V, it is open; if it is more than		
	rated voltage	140V, it is closed; the maximum input is 300V.		
	Parameter	Range	Accuracy	

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	Direct access voltage	Phase vol	ltage10V~400V	0.2%	
		Line volt	tage10V~500V		
	Primary side voltage	Maximum1000kV			
	Direct access current	5n	nA~6.5A	0.2%	
	Primary side current	Maxim	um 100000A		
	Frequency	4	0~70Hz	0.1%	
Accuracy of	Power factor		-1~1	1%	
electrical	Active energy	0~9999	99999.9 kWh	0.5%	
parameters					
1	Reactive energy	0~9999	99999.9 kvarh	2%	
	Active power	single phase:	$0 \sim \pm 9999 MW/Mvar$	0.5%	
	Reactive power	total: $0 \sim \pm 9999 MW/Mvar$		1.0%	
	Unbalance	0%~100%		1%	
	Harmonic ratio	0%~100%		Level B	
	Parameter		Performance		
Ambient	Normal working ter	nperature	-20°C∼+60°C		
temperature	Extreme operating	temperature	-25°C~+70°C		
	Storage temperature	5	-40°C∼+85°C		
Operating humidity		5% \sim 95%, without con	densation		
	Power frequency w	Power frequency withstand voltage		4000VAC (GB/T 17215.211)	
Insulation	Insulation resistance	Insulation resistance		$\geq 100M\Omega$	
performance	Surge voltage	Surge voltage		6000V	
IP protection Front panel			IP52		
level	Complete machine		IP20		
	Iterm		Reference standard	Test class	

	ElectroSTatic Discharge	GB/T17626.2-2006	4 level
		(IEC61000-4-2:2001)	
	Radio frequency electromagnetic	GB/T17626.3-2006	4 level
	field radiation immunity	(IEC61000-4-3:2002)	
	Electrical fast transient pulse group	GB/T17626.4-2008	4 level
	disturbance immunity	(IEC61000-4-4:2006)	
Electromagnetic	Surge (impact) immunity	GB/T17626.5-2008	4 level
Compatibility		(IEC61000-4-5:2005)	
	Rf field induction conduction	GB/T17626.6-2008	3 level
	disturbance immunity	(IEC61000-4-6:2006)	
	Electromagnetic emission limit	GB 9254-2008	B level
		(CISPR22: 2006)	
	Voltage sag, short interruption	GB/T17626.11-2008	conform
	immunity	(IEC61000-4-11:2004)	

8 Maintenance & Troubleshooting

May issue	Possible cause	Possible solution		
The device has no display after adding the control power	Power was not added to the device	Check whether the correct operating voltage is applied to the L/+ and N/- terminals of the device.Check whether the control power insurance is not burnt out		
The measurements are incorrect or do not conform to expectations	The voltage is not measured correctly	Check whether the neutral connection is reliable Check whether the measured voltage matches the rated parameters of the equipment Check whether the PT variable ratio parameter is set correctly		

		Check whether the measured current matches	
	The current is not measured	the rated parameters of the equipment	
	correctly	Check whether the CT variable ratio	
		parameter setting is correct	
		Check whether the measurement mode	
	The power measurement is incorrect	Settings are correct	
		Check if the voltage and current phase	
		sequence is correct	
		Check if current namesake terminal is wrong	
	The switch voltage is not correct	Check whether the external node type matches	
The switch state does		the device rating parameters	
not change		Check if the external wiring is correct	
	The device communication	Check whether the device address is	
	address is incorrect	consistent with the definition	
	The device communication	Check whether the device communication rate	
	rate is not correct	is consistent with the definition	
The upper machine	The communication link is		
cannot communicate	not connected to terminal	Check if 120 ohm resistance is added	
with the device	resistance		
	The communication link is	Check whether the communication shield is	
	disturbed	well grounded	
		Check whether the communication cable is	
	Communication line outage	disconnected	

9 Appendix

9.1 Terminal diagram



9.2 Terminal definition table

SN.	Terminals number	Terminal definition	
1	VA, VB, VC, VN	Voltage terminal	
2	S1, SG	Switching input terminal	
3	I0+, NC, I0-	Residual current terminal	
4	IA+, IA-, IB+, IB-, IC+, IC-	Current terminal	
5	RJ45	Temperature of the terminal	
6	485A+, NC, 485B-	Communication terminal	
7	L, N	Power terminal	

Definition	Description	Definition	Description	Definition	Description
IA+	A phase current input line	VA	A phase voltage	485A+	485 plus end
IB+	B phase current input line	VB	B phase voltage	485B-	485 minus end
IC+	C phase current input line	VC	C phase voltage	IO/+	Leakage current into the line
IA-	A phase current output line	VN	Voltage neutral line	IO/-	Leakage current outgoing the line
IB-	B phase current output line	L	The power of fire	S1	Switch volume 1 input positive
IC-	C phase current output line	N	The power of zero line	SG	Switch input common terminal
RJ45	Standard cable headers	NC	Empty		

9.3 Terminal specification table

Note: The order of RJ45 from left to right is :The first circuit temperature positive, the first circuit temperature is negative, the second circuit positive, the second circuit temperature, the third circuit positive, the third circuit negative, the fourth circuit positive, and the fourth circuit negative.

9.4 Terminal wiring instructions

9.4.1 Communications wiring

(1) RS-485 communication port, the terminals are marked as 485A+, 485B+.

The RS-485 communication mode allows up to 32 PMC series meters to be connected to one bus, connected to the host computer through an RS-232/RS-485 converter. Communication cables can use ordinary shielded twisted-pair cables, and the total length should not exceed 1200 meters. The positive and negative polarity of the RS-485 ports of each device must be connected correctly, and one end of the cable shielding layer must be grounded. If the shielded twisted pair is long, it is recommended to connect a resistance of about 120Ω at its end to improve the reliability of communication. For the convenience of on-site connection, the positive and negative polarity of the RS-485 port has two connection ports, and the communication connection is as follows:



(2) For LoRa communication, the antenna is located at the upper right part of the device. If the device is installed in the metal cabinet, the antenna shall be extended out of the cabinet to ensure the communication quality.

(3) 4G communication. The lower right part of the device is 4G communication module. After opening the small plate on the upper cover of the module, the SIM card can be replaced.

Along the grooved clamshell, you can see the microUSB and microSIM ports, as shown in figure³ (Cut to the left) insert SIM card
(1) Flip
(2) MicroUSB

(3) MicroSIM



9.4.2 Residual current connection

The two wires of the residual current transformer are respectively connected to the two terminals IO+ and IO- of the residual current loop of the device.

Alarm or fault signal may be generated when the remaining current transformer is connected live, which is not caused by the device fault but the live wiring operation. Therefore, try to avoid the device's live wiring operation.



9.4.3 Temperature wiring

The two wires of the temperature probe are connected to the two terminals of the temperature loop of the device respectively. The first line are PT1A and PT1B terminals.

The device can realize temperature alarm function by setting out-of-limit parameters. Can be set through the upper computer.

When connected with the temperature detection head, an alarm signal will be

generated, which is not caused by the device fault but by the live wiring operation. The alarm signal can be manually retraced. Avoid live connection operation of the device.



9.4.4 Switch-volume connection

The device supports 1-way switch input, terminal labeled S1, SG, and is used to detect the location signal of the combiner and brake , and other states of the external contact. The corresponding status of DI is displayed on the panel.

The wiring diagram of external active node is as follows:



9.5 Typical wiring diagram

EGO700 supports a variety of measurement wiring modes, star and Angle wiring.



9.5.1 CTC mode (built-in CT) wiring diagram

Three-phase four-wire system:



Three-phase three wire system:





9.5.2 External CT wiring diagram

Low-voltage three-phase four-wire star, no PT, 3CT: High pressure three-phase four-wire star, 3PT, 3CT: VA VB VC VN IA+ IA- IB+ IB- IC+ IC-VA VB VC VN IA+ IA- IB+ IB- IC+ IC-1 1 L1 L1 L2 L2 ~ L3 L3 Ν Ν

Three-phase four-wire system:

Three-phase three wire system:

three-wire Angle, no PT, 2CT:



Typical wiring diagram of EGO700 I :

Low voltage three-phase four wire star wiring diagram



Typical EGO700 wiring diagram II :

High voltage three-phase three-wire (2PT2CT) angular wiring diagram



Notice:

• The information provided in this manual may be modified without prior

notice.

• PILOT reserves the right to modify this manual without prior notice in view of continued improvement.



Add: No. 15, Keji 6 Road, Chuangxin Haian, Tangjia High-tech Zone, Zhuhai, Guangdong,

519085 China

Tel:+86-756-3629687/3629688

Fax: +86-756-3629600/ 3629670

http://www.pmac.com.cn