

Magpie CC Interface

User Manual

V220121R



Revision History/修订历史记录

Date/日期	Editor/修改人	Version/版本	Description/描述
2022/01/21	Miki	V220121R	First Release/初始版本

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1. Brief/简述




1.1.Introduction/概述

Magpie is a Wi-Fi gateway. This manual describes the use of Magpie so that users can quickly use the product. This manual applies to the current software and hardware version. We reserve the right to change the content of the manual due to product upgrades. To prevent improper operation, please carefully read this manual before use.

本手册对 Magpie 采集器的使用进行说明，以使用户能够快速使用该产品。本手册适用于当前软件及硬件版本。我们保留因产品升级对手册内容进行变更的权利。为防止不当操作，使用前请认真阅读本手册。

1.2.Symbol/符号说明

Table 1-2-1 Symbol/符号说明

Symbol/符号	Indication/含义
	" Attention " means there are potential risks, if not avoided, it may not operate normally or cause losses “ 注意 ”表示有潜在风险，如果未能避免可能无法正常运行或造成损失的情况
	" Danger " means that there is a potential hazard, which will cause injury if not avoided “ 危险 ”表示有潜在危险，如果未能避免会导致伤害情况
	" Tip " is used for important or key information to explain how to better use the product “ 说明 ”用于重要或关键信息，对于如何更好的使用该产品做出说明

2. Features/产品特性


- RS-485 communication
RS-485 通讯
- Wi-Fi support AP+STA dual mode
Wi-Fi 支持 AP+STA 双模式
- Automatic time synchronization when connected to internet
自动时间同步
- Support OTA for gateway
支持 OTA 升级采集器
- Support OTA for inverter
支持 OTA 升级逆变器
- Support local setting parameters for inverter by smart phone
支持智能手机本地设置逆变器参数
- Support remote setting parameters for inverter by smart phone
支持智能手机远程设置逆变器参数
- Support data breakpoint continuation
支持数据断点续传
- Flame retardant grade: UL94 V-0
阻燃等级: UL94 V-0
- Anti-UV grade: F1
抗紫外线等级: F1
- Degree of protection: IPX7
防护等级: IPX7

3. Package list/包装清单

Please check whether the package and accessories are complete. If any accessories are missing or obviously damaged, please contact the dealer.

请检查包装及附件是否完整，如果附件缺失或有明显破损，请联系经销商。

Table 3-1 Package list/包装清单

List/清单	Name/名称	Quantity/数量
	<p>Wi-Fi stick Wi-Fi 采集器</p>	<p>1</p>

4. Indication/产品指示

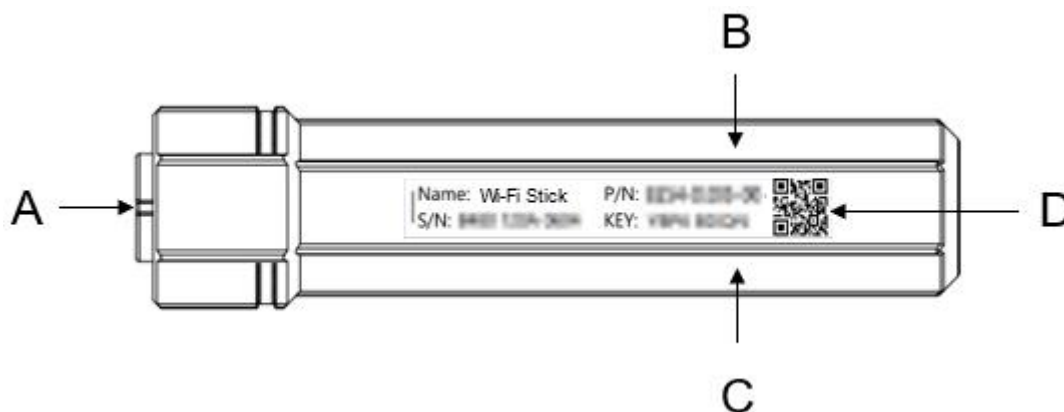


Fig. 4-1 Indication/产品指示

A. Circular Connector Interface: Connect to inverter and communication

航空头接口：连接逆变器及通信

B. Red LED: Inverter communication indication

红灯：逆变器通信指示

C. Green LED: Network communication indication

绿灯：网络通信指示

D. Product label: Show product information

产品标签：展示产品信息



1. LED glow only when the Magpie is powered on.

LED 在采集器通电后才会点亮

2. When the Magpie is powered on, the green LED glows for 3S as a power on indication.

采集器通电时，绿灯会点亮 3 秒，作为通电指示

3. The more detail LED indication please refer chapter 9 "LED indication and trouble shooting" .

详细 LED 指示说明请参考第 9 章【LED 指示与故障排查】

5. Installation and removal/安装与拆卸

This chapter introduce how to install the Magpie on the inverter and how to remove it.

本章介绍如何将采集器安装到逆变器上以及如何拆卸。

5.1. Install the Magpie/安装采集器

Insert the Magpie: as shown in the following figure, confirm the direction of the Aerial Plug Interface on the inverter firstly, and then insert the Magpie in arrow direction;

插入采集器：如下图所示，先确认好逆变器的航空头接口方向，再按箭头方向对准插入采集器；

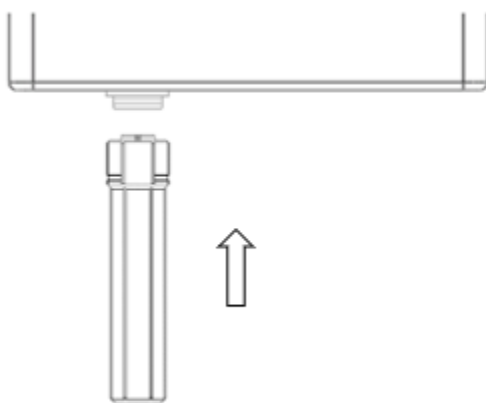


Fig. 5-1-1 Insert the Magpie/插入采集器

Tighten the Magpie: as shown in the following figure, tighten the Magpie body clockwise.

拧紧采集器：如下图所示，顺时针旋转拧紧采集器本体。

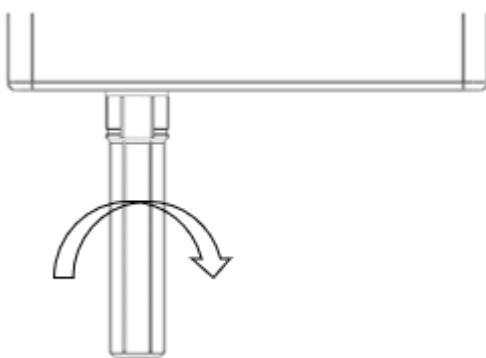


Fig. 5-1-2 Tighten the Magpie/拧紧采集器

5.2. Disassemble Magpie/拆卸采集器

Disassemble Magpie: as shown in the following figure, turn the Magpie body counterclockwise till breaking away from the Aerial Plug interface on the inverter.

拆卸采集器：如下图所示，逆时针旋转采集器本体至脱离逆变器的航空头接口。

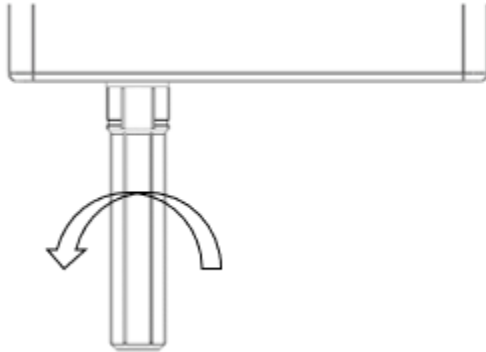


Fig. 5-2-1 Disassemble Magpie/拆卸采集器

6. Communication Connection/网络连接

This chapter introduces the configuration method of Wi-Fi communication.

本章介绍 Wi-Fi 通讯配置方法。



When configuring the network, ensure that the Magpie is powered on! Otherwise, check whether the inverter is powered on.

进行网络配置时，请确保采集器处于通电状态！如未通电，请检查所连接逆变器是否已开机

6.1. Wi-Fi Connection/ Wi-Fi 连接

The Wi-Fi connection diagram of Magpie is shown in the figure below. The specific process can be downloaded according to chapter 7 “Download APP” to download the APP, and configure the network connection according to the operation guide of the APP.

下图是 Magpie 的 Wi-Fi 连接示意图，先参照第 7 章【下载 APP】下载对应的 APP，然后按照 APP 操作指引配置采集器，使采集器正常联网。

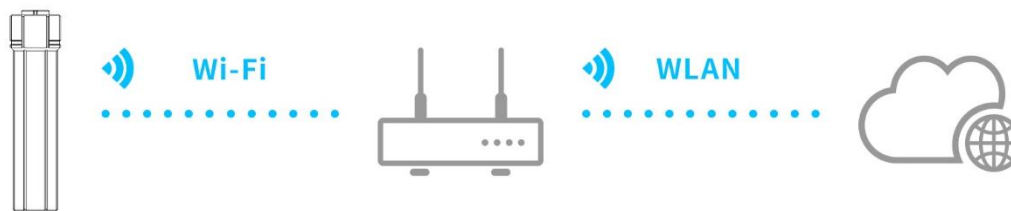


Fig. 6-1-1 Wi-Fi connection diagram/Wi-Fi 连接示意图

7. Download APP/下载 APP

iOS: search "PV Pro" in Apple Store, or scan the image below with a QR code.

Android: search "PV Pro" in Google Play, or scan the image below with a QR code.

苹果手机：可在 Apple Store 搜索 "PV Pro" 进行下载，或者扫描下方二维码下载

安卓手机：可在 Google Play 搜索 "PV Pro" 进行下载，或者扫描下方二维码下载



Fig. 7-1 APP QR code/APP 二维码

8. Installation qualification/安装确认

If the Magpie works normally, red LED and green LED are always glowing. Otherwise, it needs to be corrected by referring to chapter 9 “LED indication and trouble shooting” .

如果采集器正常工作，红灯与绿灯会处于长亮状态。否则，需要根据第9章【LED 指示与故障排查】进行排查。

9. LED indication and trouble shooting/LED 指示与故障排查
















-  Red LED: Inverter communication indication/红灯，即逆变器通信指示
-  Green LED: Network communication indication/绿灯，即网络通信指示

Table 9-1 the table of LED state/ LED 状态表

LED	State/状态	Indication/含义
	<p>Cycle for 2S: flash once quickly, then glowing</p> <p>2S 周期循环：快速闪烁一次，然后点亮</p> 	<p>Communication is normal</p> <p>正常通信</p>
	<p>Not glow more than 20S</p> <p>熄灭状态超过 20S</p> 	<p>The power supply to the Magpie is abnormal or damaged:</p> <ol style="list-style-type: none"> 1. Check whether the power supply of the Aerial Plug Interface on the inverter is normal 2. Magpie abnormal, contact the dealer <p>采集器供电异常或者损坏： 请确认逆变器的航空头接口供电是否正常或者请联系经销商</p>
	<p>Cycle for 2S: flash once quickly, then off</p> <p>2S 周期循环：快速闪烁一次，然后熄灭</p> 	<p>Communication failure:</p> <p>Check whether the connection between the Magpie and inverter is loose or poor contact</p> <p>通信异常： 请检查采集器与逆变器之间的连接是否松动或者接触不良</p>
	<p>When powered on, continuously glows 3S, and then off</p> <p>通电后，点亮 3S，然后熄灭</p> 	<p>Power on indication</p> <p>通电指示</p>

	<p>Glow more than 5S</p> <p>点亮时间超过 5S</p> 	<p>Communication is normal</p> <p>正常通信</p>
	<p>During the long glowing, flash occasionally</p> <p>长亮过程中，偶尔闪烁</p> 	<p>Network transmit data</p> <p>网络传输数据</p>
	<p>Cycle for 20S: flash once quickly, then off</p> <p>20S 周期循环：快速闪烁一次，然后熄灭</p> 	<p>The route is not connected:</p> <ol style="list-style-type: none"> 1. Check whether the password is right 2. Check the strength of the router <p>未连上路由器：</p> <ol style="list-style-type: none"> 1. 请检查路由器密码是否正确 2. 请检查路由器信号是否偏弱
	<p>Cycle for 20S: flash 3 times continuously, then off</p> <p>20S 周期循环：连续快速闪烁三次，然后熄灭</p> 	<p>Connect to the route, but can't connect to the cloud server:</p> <ol style="list-style-type: none"> 1. Check whether the router has Internet access permission 2. Check the firewall setting <p>连上路由器但无法连接云服务器：</p> <ol style="list-style-type: none"> 1. 请检查路由器是否有上网权限 2. 请检查是否有防火墙设置

	<p>Cycle for 20S: flash 4 times continuously, then off</p> <p>20S 周期循环：连续快速闪烁四次，然后 熄灭</p> 	<p>Magpie information error: Contact the dealer 采集器信息错误： 请联系经销商</p>
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1.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body

2. Contact us/联系方式

Service email/服务邮箱: support@e-linter.com

Switchboard/公司总机: 028-6787 8658

Service Call/服务电话: 028-6787 8658-621

Address 1: Floor 9, Building 10, Tianfu New Valley, No. 399, West Section of Fucheng Avenue,
Chengdu, Sichuan, China

成都地址: 成都市高新区府城大道西段 399 号天府新谷 10 号楼 9 楼

Address 2: Building 1, No. 206, Songshan Road, Suzhou, Jiangsu, China

苏州地址: 江苏省苏州市高新区嵩山路 206 号 1 号楼