ICA400-06/ICA400-06N Stick Logger (4G) Quick Start Guide

⚠️ Safety precautions

Before using the product, read the manual carefully to ensure safe operation.

- The account and password are the authentication credential of the PV monitoring system, with which you can manage your PV power station after login. Keep the account and password safe and take adequate measures to prevent them from being stolen. If the account and password are stolen, it may cause significant losses.

- An IoT SIM card is forced to device-card binding, and it can only be applied to the device where it is powered up and networked for the first time. Do not insert it into another device; otherwise, it will be locked.

- The product is an industrial IoT product. Although we have taken necessary technical means to ensure the data security, there may still be hacking and other network security risks that are beyond our control or responsibility. We are not liable for any harm that is not caused by quality defects of the product itself.

- Without our written permission, no entity or individual can extract, duplicate, or disseminate any of this document in any forms.

✏️**Note:** Insert or remove the stick logger only when the power is off.

1 Downloading the monitoring platform

If you are a PV power station home user, we recommend you to scan the following QR code with your mobile browser to download the App.

You can also visit http://solar-user.iwoscene.com/ to view data.

If you are a distributor, equipment dealer, or O&M provider engaged in the PV industry, we recommend you to scan the following QR code with your mobile browser to download the App.

You can also visit http://solar.iwoscene.com/ to view data.

✏️**Note:** The QR codes are used for downloading the Apps to Android mobile phones.
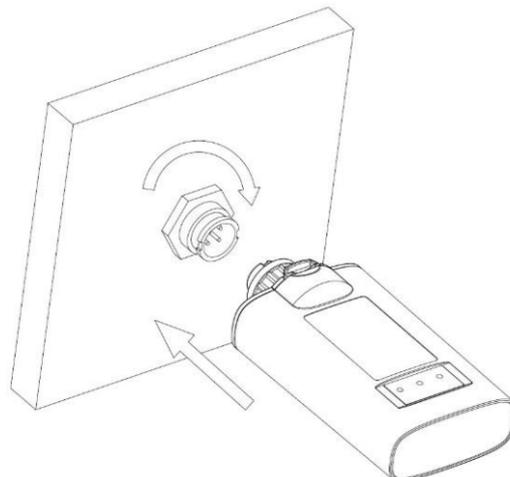
2 Installing the stick logger

2.1 Installing

- **ICA400-06N: is fixed to an inverter through an aviation connector. The installation procedure is as follows:**

Step 1 Insert the stick logger along the connector guide slot.
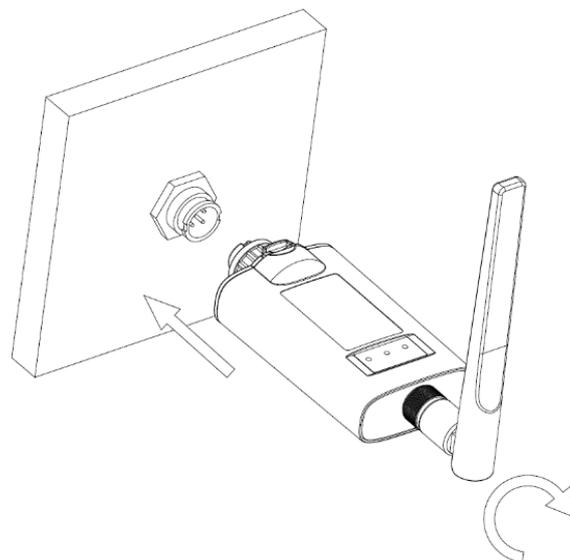
Step 2 Tighten the fastening cap clockwise.

- **ICA400-06: is fixed to an inverter through an aviation connector. The installation procedure is as follows:**

Step 1 Insert the antenna along the connector guide slot and tighten it.

Step 2 Insert the stick logger along the connector guide slot.

Step 3 Tighten the fastening cap clockwise.

2.2 Status identifying

2.2.1 Indicators indicate stick logger status.

Indicator symbol	Indicates	Description (all indicators are green)
○ NET	Status of communication between stick logger and base station	Steady off: No card or 4G module not registered on a network. Flashing slowly (on: 200ms; off: 1800ms): Searching for networks. Flashing slowly (on: 1800ms; off: 200ms): Succeeded in base station connection. Flashing fast (on: 125ms; off: 125ms): Transferring data.
○ COM	Status of communication between stick logger and inverter	Steady on or off: System exceptions happened. Flashing (on: 100ms; off: 100ms): Communication failed. Flashing (on: 10ms; off: 10ms): Transferring data.
○ SER	Status of communication between stick logger and server	Steady on: The stick logger has already connected to the server. Flashing (on: 100ms; off: 100ms): Connection initializing. Steady off: The stick logger failed to connect to the server.

If the base station signal is strong, in normal running, the stick logger indicators work as follows:

1. After power-on, COM and SER start flashing slowly, indicating that the stick logger performs initialization.

2. About 20s later, NET starts flashing slowly (indicating registering on a network).

3. About 30s later, the registration is successful. NET starts flashing slowly.

4. About 10s later, COM starts flashing fast, indicating that the communication with the inverter is successful.

5. About 40s later, NET flashes slowly, COM flashes fast, and SER is on, indicating that the stick logger works properly.

6. When the 4G module uploads data, NET flashes fast, and SER is on.

2.3 Exception handling

If a platform data exception occurs when the stick logger works, check the following table for the solution according to the indicator status. If the exception persists, contact our aftersales personnel.

✏**Note:**

● Use the following table for query two minutes after the stick logger is powered on.

● Ensure that the stick logger works properly before leaving the site. If you find any exception, contact our customer service at the first time and do not leave the site.

NET indicator ○ NET	COM indicator ○ COM	SER indicator ○ SER	Fault description	Fault cause	Solution
Any status	Off	Any status	Abnormal communication between stick logger and inverter	● Loose connection between stick logger and inverter ● Communication rate mismatch between stick logger and inverter	● Check the connection between the stick logger and inverter. Remove and insert the stick logger again. ● Ensure that the communication rate of the stick logger is consistent with that of the inverter.
Flashing (off longer than on)	Any status	Flashing	Abnormal communication between stick logger and base station	● SIM card account in arrears ● Weak 4G signal	● Ensure that there is sufficient balance in the SIM card account. ● Ensure that the SIM card has been inserted properly.
Off	Off	Off	Power supply exception	● Loose connection between stick logger and inverter ● Small inverter power ● Stick logger exception	● Check the connector and re-plug. ● Ensure that the inverter output power meets the requirements. ● Contact the aftersales personnel for handling.

3 Further information

If you have any technical questions about our products, please contact us and provide the following information:

● Model number and serial number of the stick logger

● Model number and serial number of the inverter connected

Thanks for your support.

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