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Introduction

The SAMKING GPRS/RMS integrated module is a micro monitoring and remote operation system specially designed for SAMKING solar pump system. The RMS module is integrated in the SAMKING monitor. Customers can view the pump running status and control on/off by web or mobile phone APP

Functions：

1. Check solar pump system running data,such as voltage ,current, power, panel, flow
2. Abnormal indicate: voltage, current
3. Turn on/off solar pump system by web or APP
4. Check solar pump system history running data and download

Module Parameters

1、Module picture of RMS

2、Data of module parameters

Module	Range
Wireless type	GPRS
working frequency	GSM850/EGSM900/DCS1800/PCS1900MHz
Antenna options	GPRS antenna：I-PEX Rod antenna
working temperature	-40℃~+85℃
Size (length * width * height)	55mm*40mm*20mm
data-collecting time interval	5mins

3、Antenna

classify	performance parameter
Frequency rang-MHz	850/900/1800/1900MHZ
VSWR	≤2.0
Input Impedance-Ω	50Ω

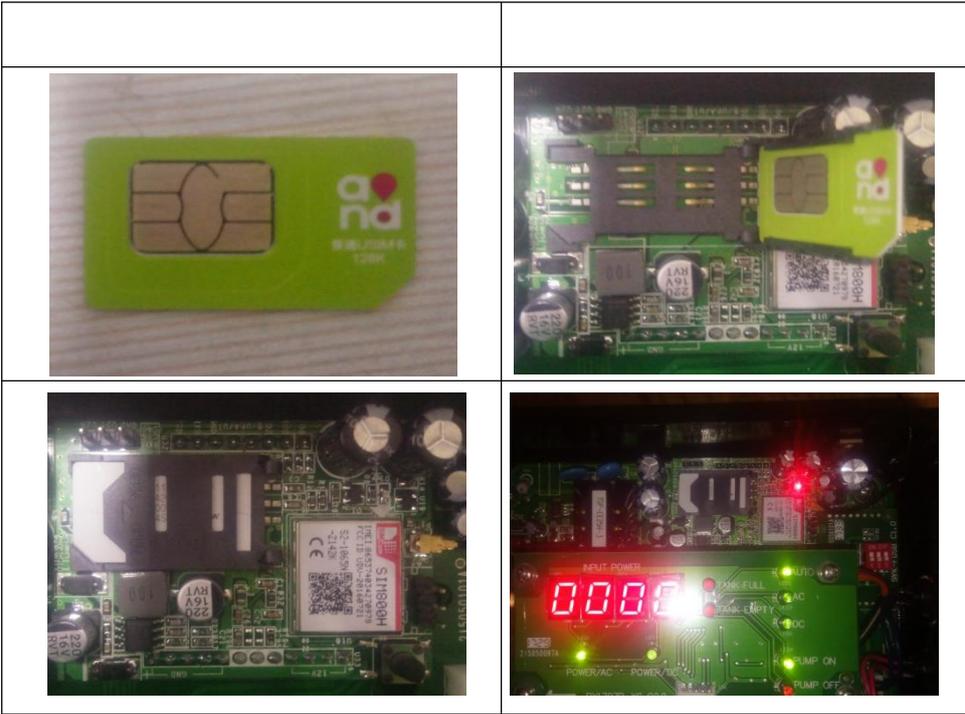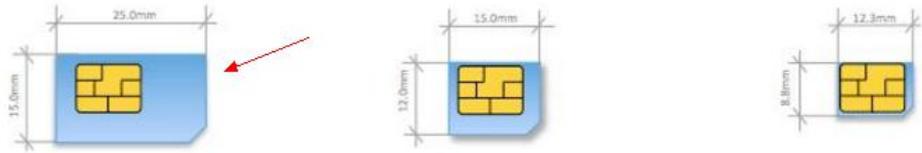| Gain-dBi	3dBi
Working Temperature-℃	-40℃~+85℃
Antenna Color	Black
Input connector	IPEX1.13
tail wire	SMA femail +IPEX terminal
	diameterφ1.13+length 200mm

Installation

The GPRS/RSM module is integrated in Monitor, easy install ,Before system running, insert SIM card and connect the antenna,then can work normally.

1、insert SIM:
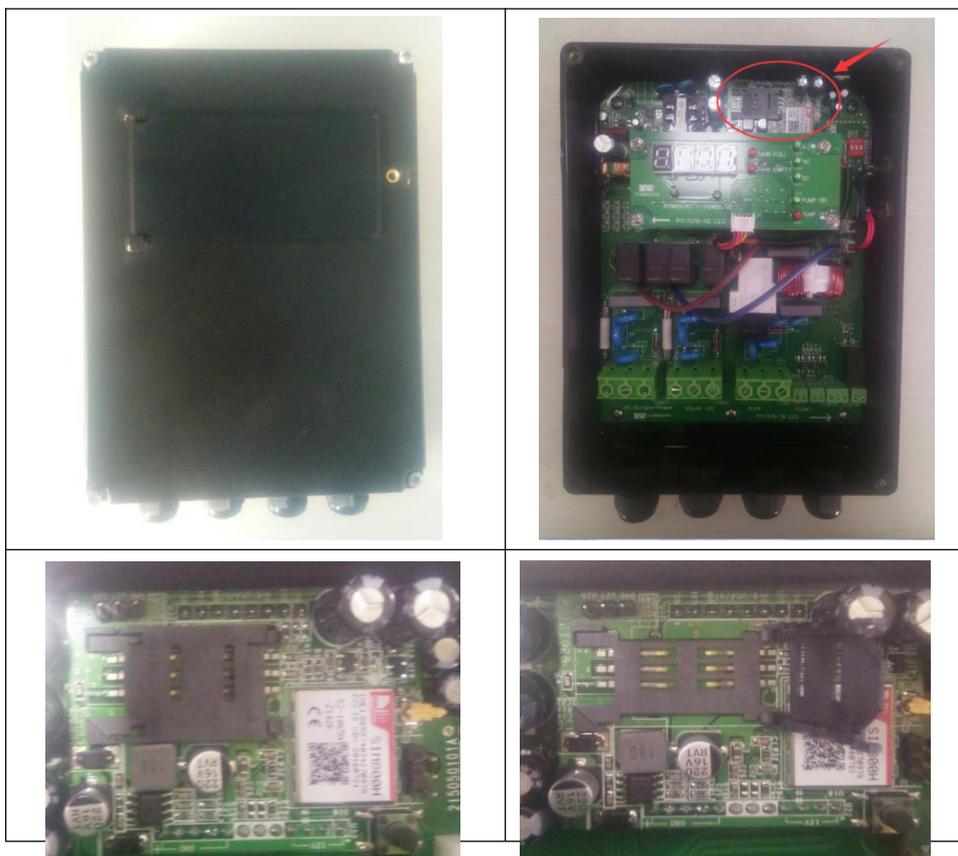
SIM card size: 25mm*15mm

Caution: must turn off power when insert SIM card,otherwise will lead to personal injury

2、Connect antenna

3、Power on operation

The GPRS/RMS module's indicator lights up, flashing 1 time per second, indicating the power supply is normal. The flicker is 5 times per second, indicating the communication data transmission is normal.
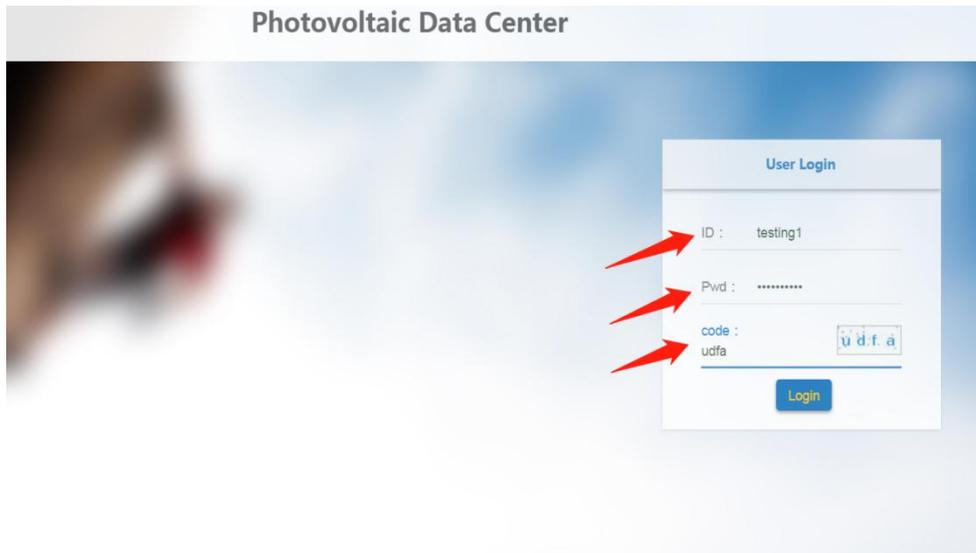
How to set in Website

1、User login

Website: http://118.190.33.7:8083/index or from www.samkingpump.com distributor login

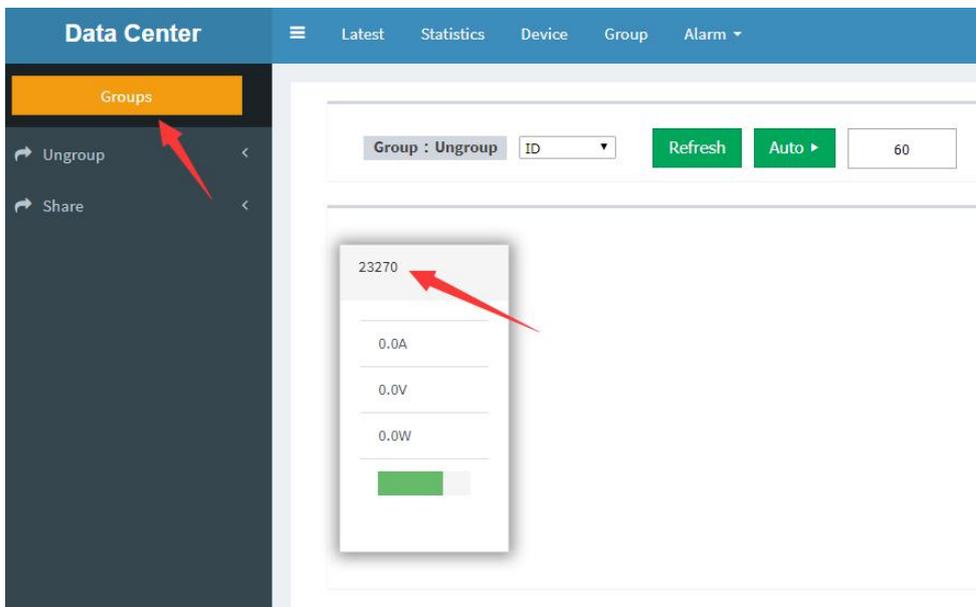Input username (ID) and password (PWD) and code

Note: (1) Chrome /firefox /opera / safari anyone IE is available

(2) GPRS username (ID) and password (PWD)(Original Password)could found on the monitor device
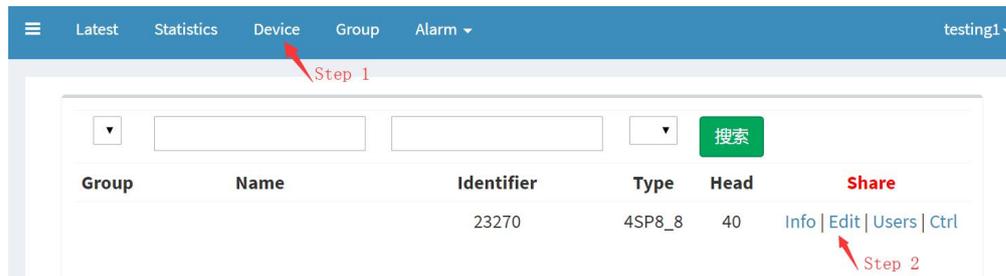

**2、Data set**

2.1 Enter the home page and check the device

2.2 Click "Device" and enter the device page. Click Edit again and enter the parameter setting interface

2.3、After setting the parameters, click "Modify".

Identifier	GPRS/RMS ID
Name	Could name by user
Group	Device grouping
Type	Pump model
Head	Duty head
SMS Alarm	/
Gap	/
Details	/
Max current	12A (Default setting when out of the factory)
Min Current	/
Max Voltage	440 (Default setting when out of the factory)
Min Voltage	90 (Default setting when out of the factory)
Max Power	3000 (Default setting when out of the factory)
Min Power	/
Max Energy	/
Min Energy	/
Min Battery	/
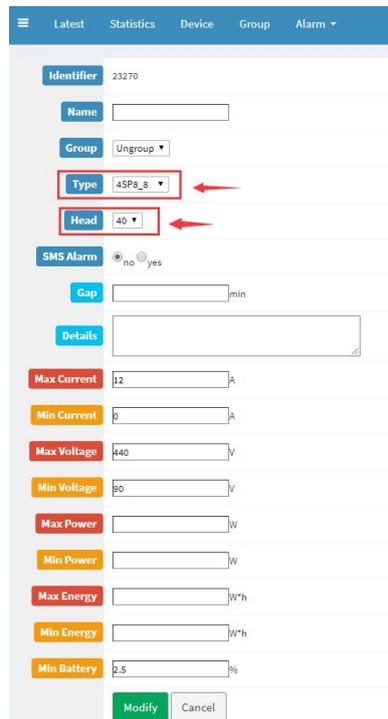
Once the setup is completing, click "Device" again to confirm if the type and head setting are correct.

Caution: incorrect set up pump model (type) or duty head (Head) , it will lead to statistical errors in water output.

3、Remote monitoring

3.1 when setup is finished, click 【Device】 to enter the device page. Click 【info】 to check the real time running status of the device.

Current (A): the latest running current of the equipment;

Voltage (V): the latest operating voltage of the equipment;

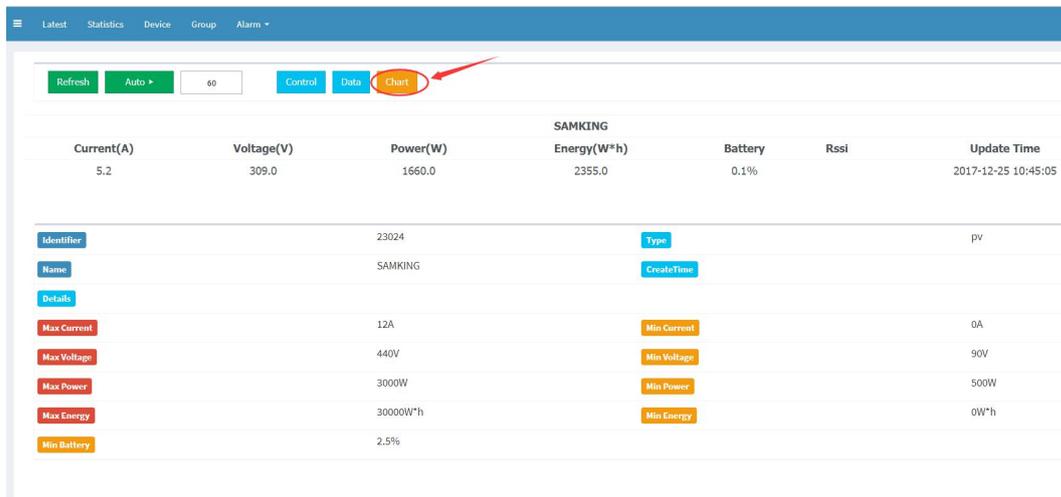Power (W): the latest update power of the equipment (Input Power);

Energy (W*h): the equipment has been updated recently, which consumes the cumulative value of DC power or solar energy on the same day.

Battery: DC battery residual energy ratio (unavailable now)

The latest data update time:
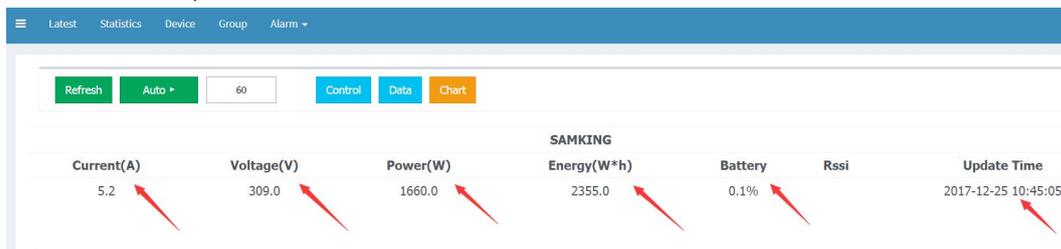
3.2、click【Chart】, Check the performance curve of the device ;

Curve meaning as follow：
a、Energy curve：indicate the total amount of solar energy consumed or the accumulative value of DC battery consumed on the same day.

As follow picture indicate: At 10:45 on Dec 25th , the total energy consumption of the equipment was 2355W till AM10:45 on Dec 25th .
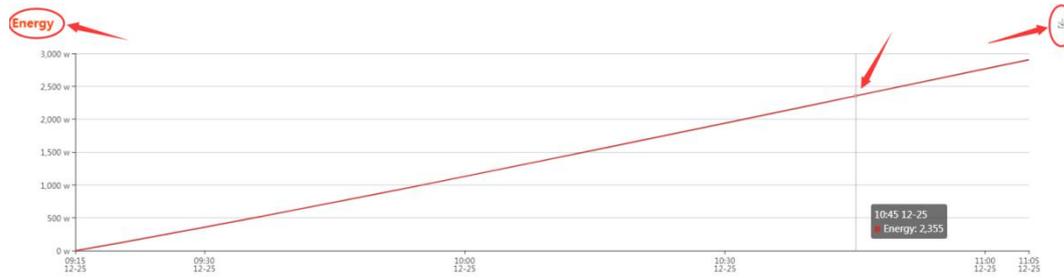
b、Flow curve: indicate output

As shown in the figure data, the system running capacity is 4.69m /h till AM10:40 Dec 25th
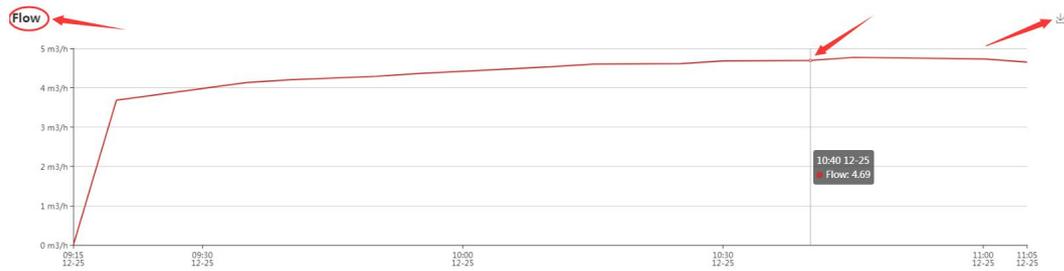
c、as follow picture,Downloading the curve data by downloading the logo at the top right corner
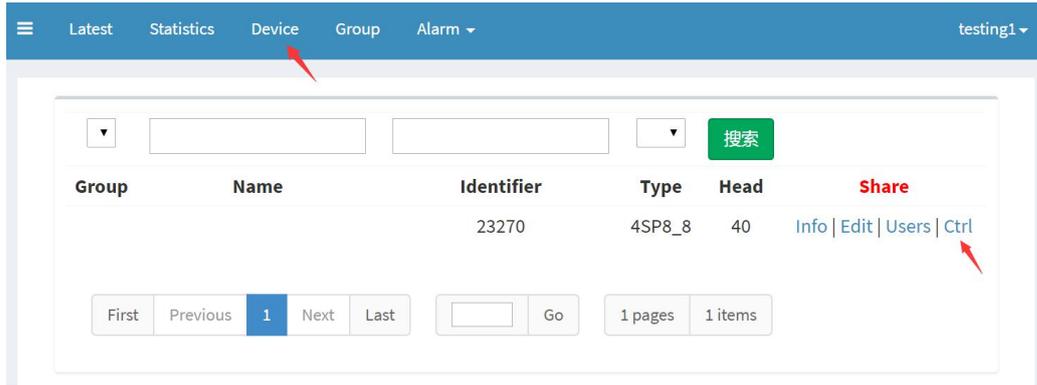
Note: entering curve page also can click【latest】

3.3、check history statistics data,click【statistics】

   a、click "Type", check "Energy" &"Flow"data.
   b、click"Unit", check "Day" &"Month"&"Year"&"All" data.

4.Remote control

4.1 Click "Device" enter setting page. Click【Ctrl】, enter remote control page

4.2 operate turn on/off system action as follow in remote control page

　　1) click【Get】,Projectile frame display "Success" 【Power Status】Display the current state of
　　　　the pump

　　2) click【Send】,change current state. Projectile frame display "Success", after change running
　　　　statue

Example: pump will turn on if pump is stopping current. Pump will turn off if pump is running
　　statue

Note: when the frame shows "failed", it can be repeated until it shows "Success". When failed is
always, need to check the device whether it's in the state of power failure.
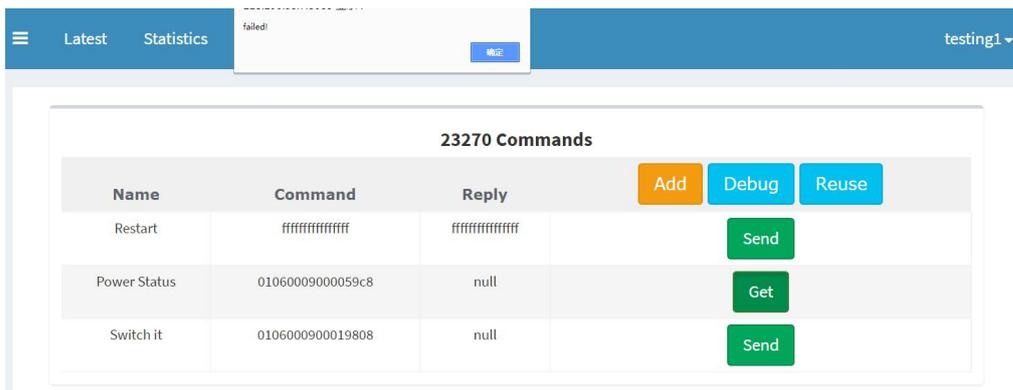
Trouble shooting

THE TROUBLE IS?	WHAT TO LOOK FOR
WEB or APP device no data	Check whether system is running
	Waiting 30mins after system working
	Check GPRS/RMS signal
GPRS/RMS signal light is not bright	Check whether Monitor power on
GPRS/RMS The flashing frequency of the signal light 1 times per second	Whether SIM card has been inserted correct
	Whether SIM card has been activated
	Check antenna connection loosening
	Check antenna size if correct
GPRS/RMS The flashing frequency of the signal light 1 times per 5 seconds Web and app no data	Check whether antenna output
	Check whether antenna failed
	Check whether powered by AC power (AC power running data designed no record)
	Check whether Signal is available at system running location
WEB or APP data error	Check whether pump model and duty head set up correct in web
	Please feedback to factory