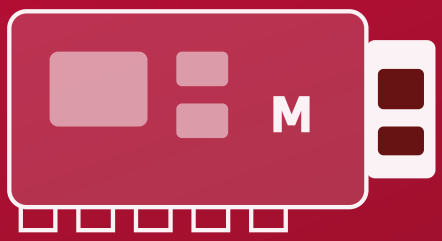
AEC
Technology Behind Power

NETWORK MANAGEMENT CARD

AEC SNMP NETWORK CARD

SNMP-M

Quick Installation Guide



For AEC UPS series

FERRUS · FERRUS RT · FERRUS SP · FERRUS SP RT · RADIANT · RADIANT-IB · CIRRO-IB · CIRRO



FERRUS



FERRUS SP



RADIANT



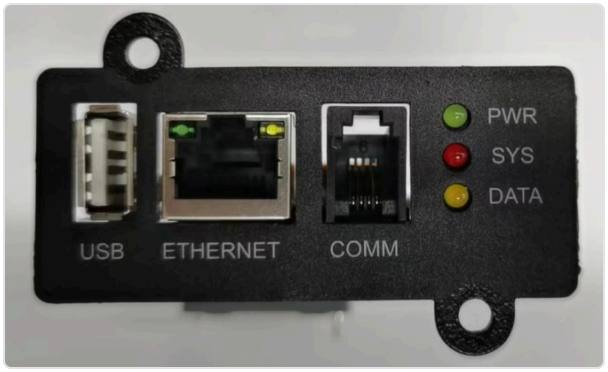
CIRRO

Quick Installation Guide

Put an AEC UPS on your network in about 15 minutes: fit the card, give it an IP address, and tell it which UPS it is in. For every menu and option, see the **SNMP-M User Manual**.

What you need

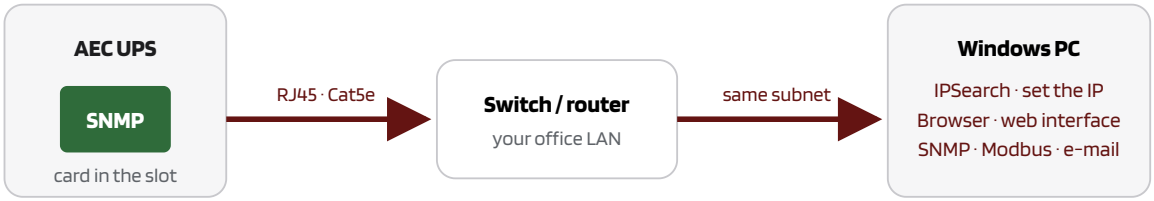
- The **AEC SNMP-M card**
- A network cable, RJ45 Cat5e or better
- A **Windows PC** on the same network as the UPS
- The program **IPSearch**, from **AEC app › Support › Downloads › SNMP › SNMP-M**
- A program to unpack RAR archives (e.g. 7-Zip)



AEC SNMP-M card: USB, ETHERNET, COMM and the PWR / SYS / DATA LEDs

Factory defaults

IP address	Shown by IPSearch on first search (set your own address before use)
Administrator	`admin` — full rights
User	`user` — view only
Passwords	Given by AEC technical service. Change both at the first login.
SNMP	Port 161 · trap port 162 · community `public` · system name *UPS Agent*
E-mail port	25 (set to your mail server's)
History saving interval	10 minutes



Settings for your UPS

Until the card and the UPS use the same settings, the card shows the alarm *UPS communication failure* and the yellow DATA LED flashes. Steps 6 and 7 fix it.

AEC UPS	Range	Protocol	Port Type · Serial Port	Baud Rate	Modbus Addr · Mode
FERRUS · FERRUS RT	1–3 kVA · single phase	**Megtec**	Uart · Port A	2400	1 · — (automatic)
FERRUS SP · SP RT	6–20 kVA · split phase	**Megtec**	Uart · Port A	2400	1 · — (automatic)
RADIANT	15–90 kVA · modular	**ACM(10-600KVA)**	Uart · Port A	Same as the UPS (e.g. 9600)	Same as the UPS (1 · RTU or ASCII)
RADIANT-IB	20–100 kVA · modular	**ACM(10-600KVA)**	Uart · Port A	Same as the UPS (e.g. 9600)	Same as the UPS (1 · RTU or ASCII)
CIRRO-IB · CIRRO	30–1600 kVA · modular	**ACM(10-600KVA)**	Uart · Port A	Same as the UPS (e.g. 9600)	Same as the UPS (1 · RTU or ASCII)

The baud rate, Modbus address and mode on the card must be the same as on the UPS: check them on the UPS display under the communication settings (UPS user manual). 2400 baud, 8 data bits, 1 stop bit, no parity is the standard of the Megtec protocol. The list also offers **TT** (tower 10–40 kVA) and **Megtec33** (Megtec three phase): if the UPS does not communicate with the protocol above, call AEC service before trying them.

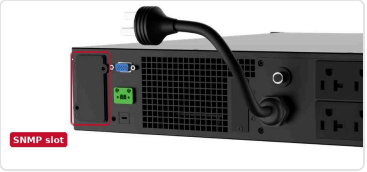
Installation step by step

1 Fit the card

UPS · INTELLIGENT SLOT (MARKED SNMP)



FERRUS: top left of the rear panel

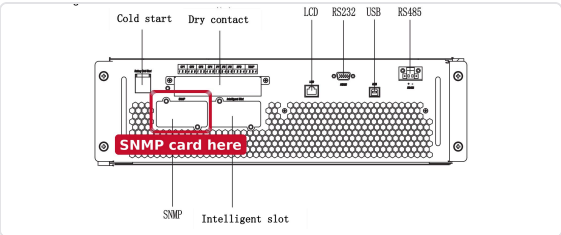


FERRUS RT: left of the rear panel

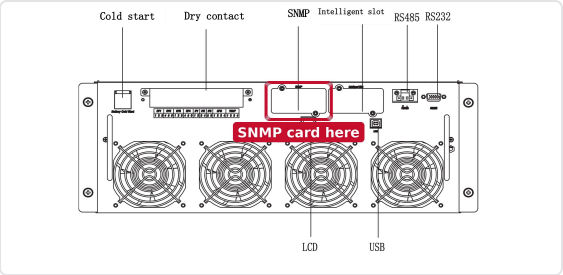


FERRUS SP RT: right of the communication ports

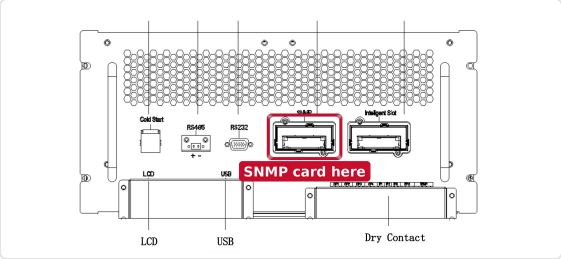
RADIANT, RADIANT-IB, CIRRO-IB and CIRRO: the card goes in the slot marked **SNMP** on the front panel of the **bypass module**. Do **not** use the slot next to it marked *Intelligent slot*: that one is for the dry-contact card.



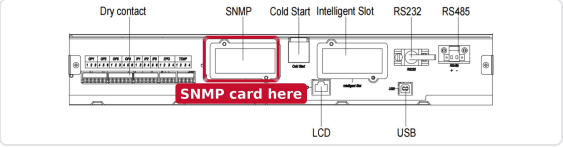
RADIANT, 4-slot cabinet: bypass module front panel



RADIANT, 6-slot cabinet



RADIANT, 10-slot cabinet



CIRRO-IB (90 and 150 kVA cabinet)

FERRUS SP tower: the SNMP slot is on the rear communication panel — see the FERRUS SP user manual.
Sources: RADIANT manual §3.7 Figure 3-10, CIRRO-IB manual §3.7 Figure 3-14.



1 · Unscrew and remove the slot cover



2 · Push the card along the guides



3 · Tighten the screws at both ends

With the UPS on, the green **PWR** LED lights.

> **CAUTION**
> The card is hot-swappable: take care of the risk of electric shock while fitting it. If your UPS has no card slot, contact AEC service — do not open the UPS.

2 Connect the network

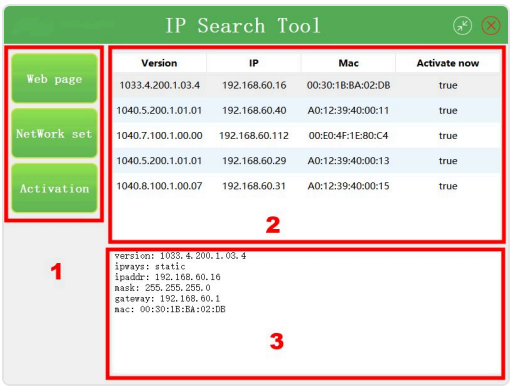
SNMP-M CARD · ETHERNET PORT



Plug a network cable from the card's **ETHERNET** port to a switch or wall socket of the **same network as your PC** (or straight to the PC for the first set-up).

3 Install IPSearch

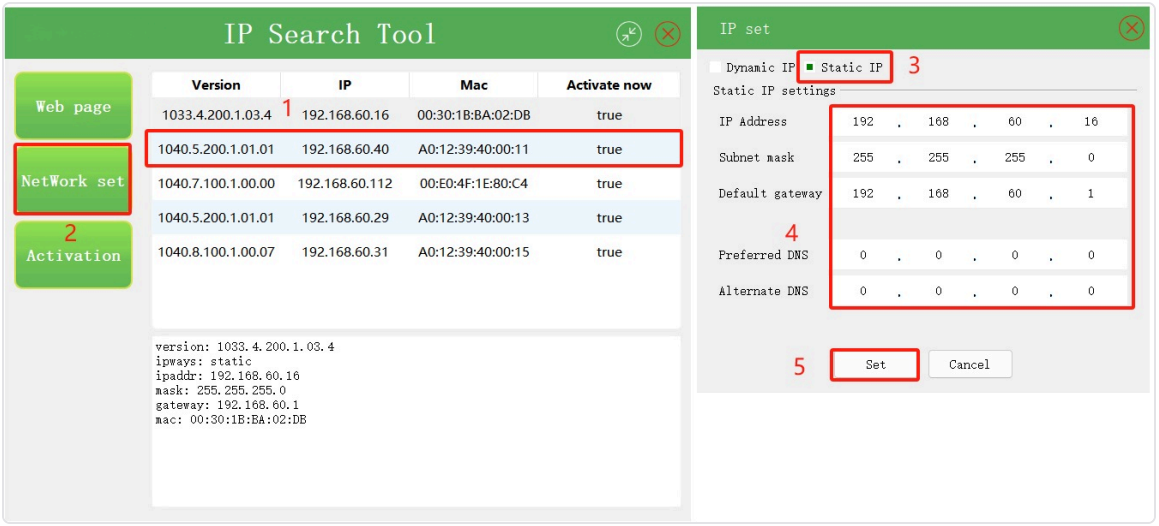
AEC APP › SUPPORT › DOWNLOADS › SNMP › SNMP-M



1. Download **IPSearch** (`AEC IPSearch.rar`) from the AEC app.
2. Unpack the archive (right-click → Extract) and run the IPSearch program inside.
3. IPSearch lists the card with its version, IP, MAC and status, and refreshes every 15 seconds.

4 Set the card's IP

IPSEARCH · NETWORK SET



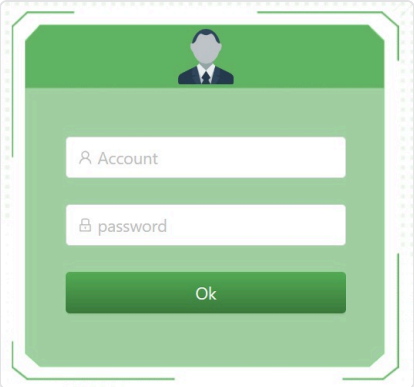
Select the card (1) → NetWork set (2) → Static IP (3) → IP, mask and gateway (4) → Set (5)

1. Select the card in the list and press **NetWork set**.

2. Choose **Static IP** and enter a free IP in your PC's network, its subnet mask and gateway (ask your IT department) — or **Obtain IP** if your network has a DHCP server.
3. Press **Set**. The list shows the new address.

5 Open the web page and log in

IPSEARCH · WEB PAGE — OR HTTP://<CARD IP>



Select the card and press **Web page**, or type its IP in a browser. Log in with Account `admin` and the password given by AEC technical service.

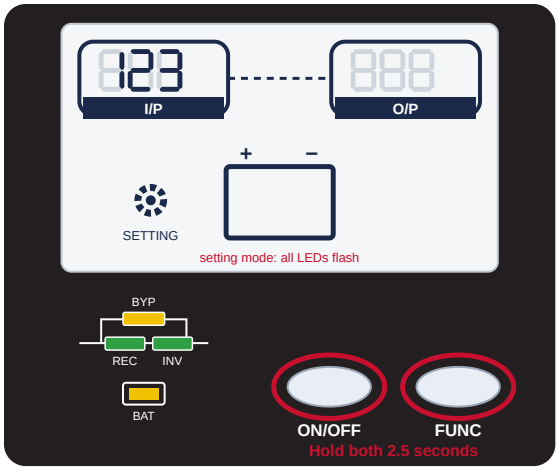
6 Set the UPS's communication port

UPS FRONT PANEL

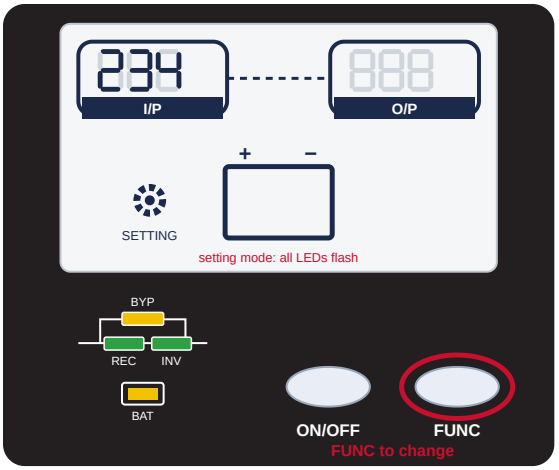
Set the UPS's communication for the card, then use the **same** values on the card in step 7. Unplug any RS232 cable: the RS232 port and the SNMP slot cannot work together.

FERRUS, FERRUS RT, FERRUS SP, FERRUS SP RT (small LCD)

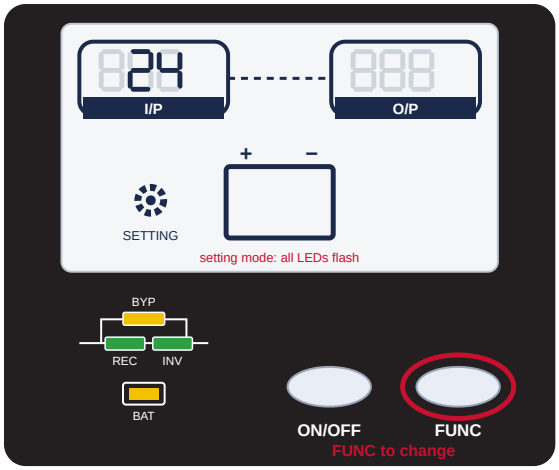
FERRUS models (single phase): normally there is nothing to set on the UPS. With the card set to **Megtec**, it reads the UPS automatically. Do the steps below only if the card still shows *UPS communication failure* after step 7: they check the UPS's SNMP-card port (2400 baud, address 1).



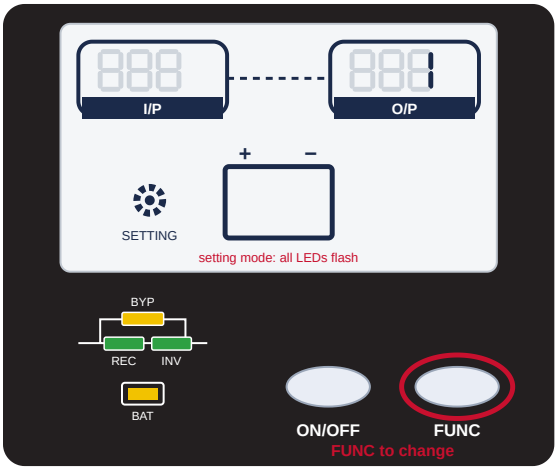
1 · Enter setting mode. Hold **ON/OFF** and **FUNC** together for 2.5 s. The gear and *SETTING* appear and all LEDs flash.



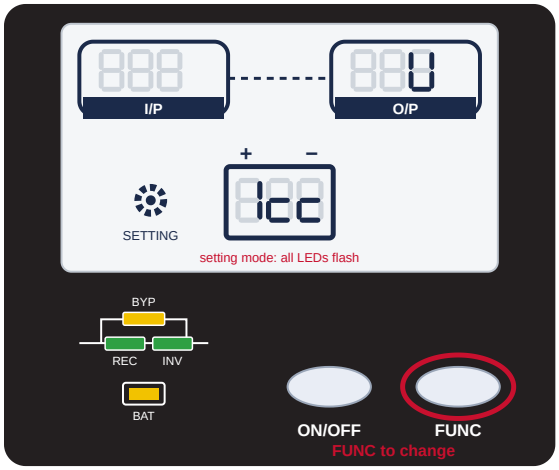
2 · Choose the SNMP card menu. Press **FUNC** until the number shows **234** (FERRUS, FERRUS RT) or **345** (FERRUS SP, FERRUS SP RT). Then press **ON/OFF**.



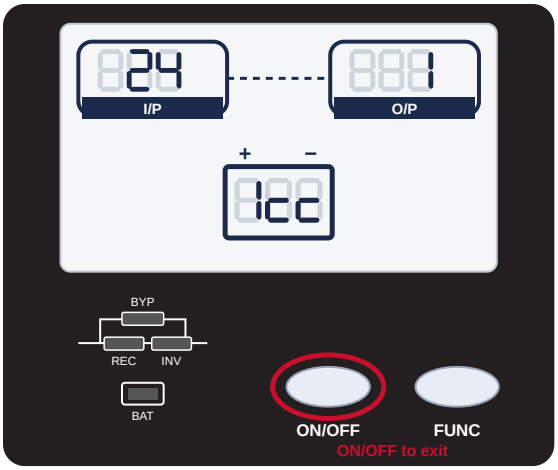
3 · Baud rate. Check it reads **24** (2400 baud, the card's Megtec setting). If not, **FUNC** until 24 (96 = 9600 · 48 = 4800 · 12 = 1200 · 192 = 19200). Press **ON/OFF**.



4 · Address (ID). FUNC changes it (1 to 32). Use **1**. Press **ON/OFF** to confirm.



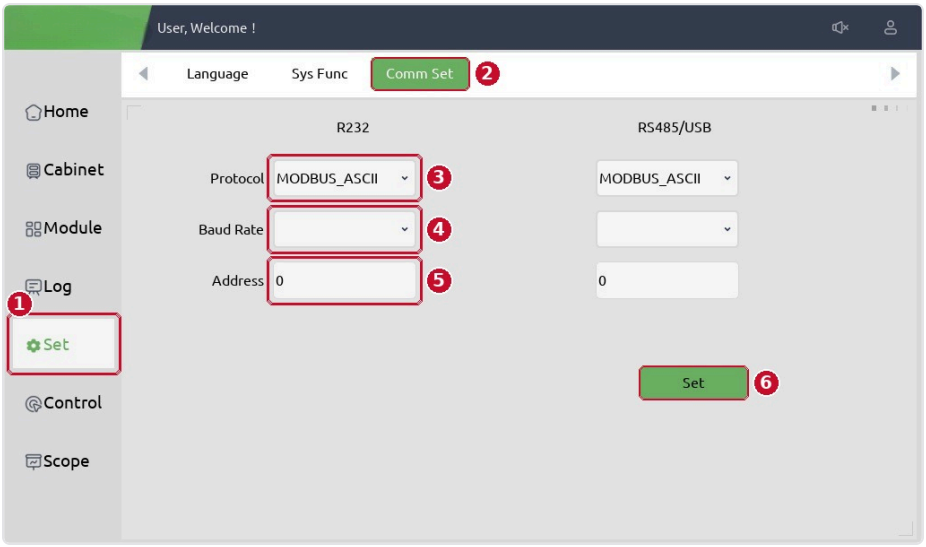
5 · Protocol. Leave it as it is — the card's Megtec setting works with it automatically. Press **ON/OFF**.



6 · Summary. Check the values and press **ON/OFF** to leave. **Restart the UPS**: the new settings work only after a restart — plan it, and protect or move the connected load first.

To leave without saving: hold **FUNC** and **ON/OFF** together for 2.5 s on any setting page.

RADIANT, RADIANT-IB, CIRRO-IB, CIRRO (touch screen)

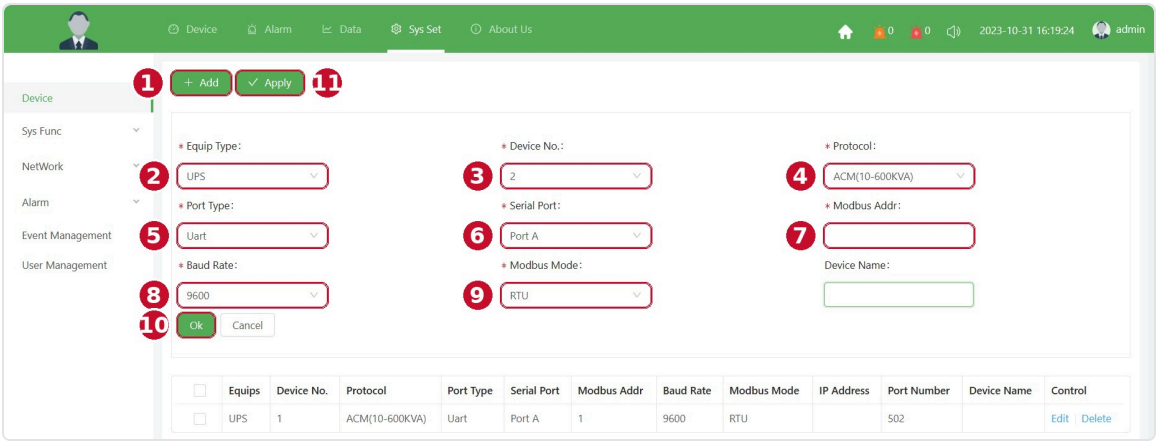


UPS touch screen: Set → Comm Set

1. 1 Tap **Set**, then 2 the **Comm Set** tab.
2. In the **R232** (RS232) column: 3 **Protocol** MODBUS_ASCII or MODBUS_RTU — never MEGA — 4 **Baud Rate** (e.g. 9600), 5 **Address** 1.
3. 6 Tap **Set**. Write the three values down for step 7.
4. If Comm Set asks for a password, it is reserved to the service engineer: call AEC service.

7 Tell the card which UPS it is in

SYS SET → DEVICE

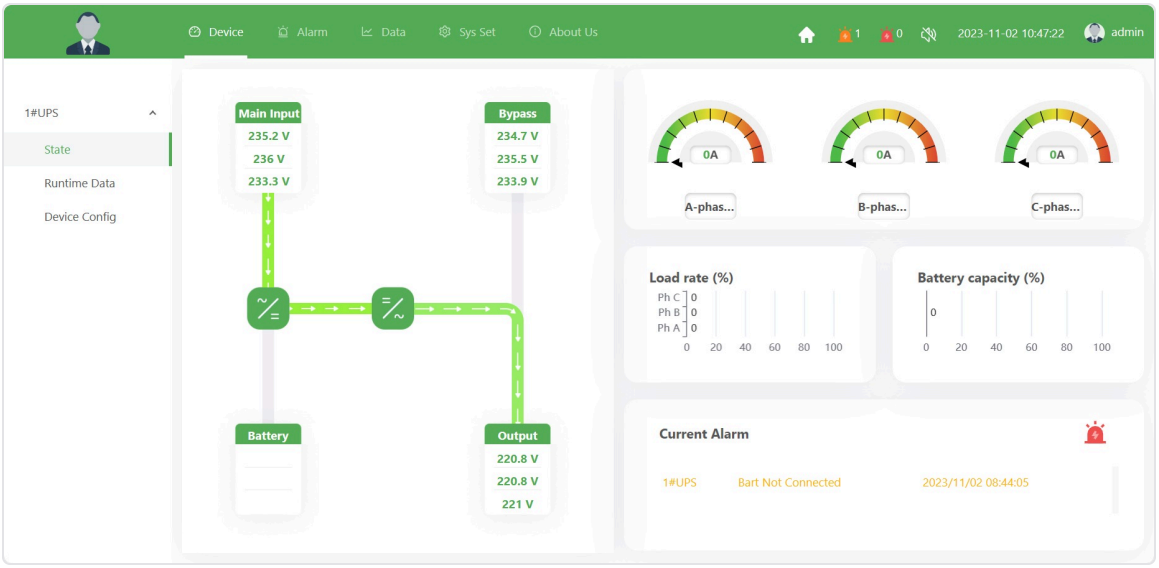


Sys Set → Device: Add, the UPS settings, Ok, Apply

1. Click **Sys Set** (top menu), then **Device** (left), then 1 **+ Add**.
2. 2 **Equip Type**: UPS · 3 **Device No.**: 1.
3. 4 **Protocol**: **Megtec** for FERRUS models, **ACM(10-600KVA)** for RADIANT and CIRRO models.
4. 5 **Port Type**: Uart · 6 **Serial Port**: Port A.
5. 7 **Modbus Addr**, 8 **Baud Rate** and 9 **Modbus Mode**: the same as the UPS (step 6).
6. 10 Click **Ok**, then 11 **Apply**.

8 Check the UPS values

DEVICE → 1#UPS → STATE



The card reading the UPS: energy flow, input, bypass and output voltages, load, battery and alarms

The yellow DATA LED is off. If *UPS communication failure* remains, check the protocol, baud rate and Modbus mode against the UPS display.

9

Secure the card and set alarms (recommended)

SYS SET

1. **User Management**: change the `admin` and `user` passwords and keep them.
2. **Sys Func**: give the card a **system name** — it is the sender of alarm e-mails.
3. **Sys Func** → **Time Set**: time zone (Miami: GMT-5, GMT-4 in summer) and a time server.
4. **Sys Set** → **Alarm** → **Email Settings**: your SMTP server, port, account and a recipient → **Send test email** → save.

Indicators

LED	State	Meaning
PWR (green)	On Off	Card powered normally Card not powered
SYS (red)	Off Flashing On	System normal General alarm Serious alarm
DATA (yellow)	Off Flashing	Communication with the UPS normal Communication with the UPS abnormal

Quick checks

You see	Check
IPSearch finds nothing	PWR LED on · cable in the same network as the PC · Windows firewall allows IPSearch
The web page does not open	The card's IP is in the same subnet as the PC (step 4)
UPS communication failure · DATA LED flashing	Protocol, baud rate, Modbus address and mode match the UPS (steps 6 and 7) · no RS232 cable plugged in
Test e-mail fails	Server address and port · account and password · the card's network reaches the mail server · SMTP enabled on the account

NEXT

Connect a network manager by SNMP, Modbus TCP or MQTT, set e-mail alarms for several people, add temperature, humidity or water sensors: see the **SNMP-M User Manual**.

Support

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