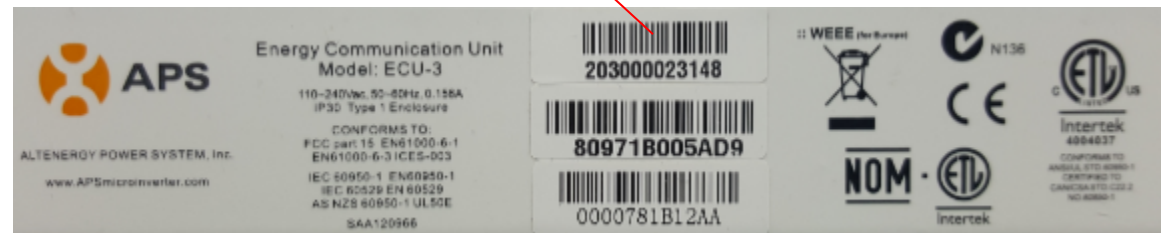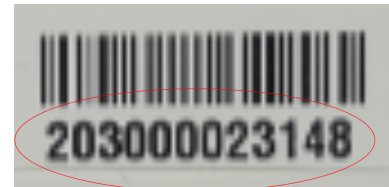# APsystems
## ALTENERGY POWER

# ECU-3 Configuration

**Module 4**

# ECU ID and Version

ECU ID (12 digits) is located on the label sticked on the top side or the back of the ECU case.



ID starting with :
- **203** -> ECU-3 PLC version 3 (V3) for YC500
- **204** -> ECU-3 PLC version 4 (V4) for YC500
- **213** -> ECU-3Z ZigBee version 3 (V3) for YC1000 (not compatible with YC600 & QS1)
- **214** -> ECU-3Z ZigBee version 4 (V4) for YC1000 (not compatible with YC600 & QS1)

V4 gets WiFi communication
V3 doesn't get WiFi communication

# 1 - Connect to the ECU

Set up Local Area Network

➢ Option 1 : Lan connection via internet router (ECU-3)

➢ Option 2 : direct connection through Wifi (ECU-3 V4)

# Option 1

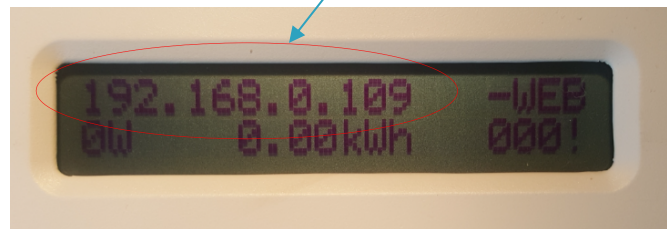## Lan connection via internet router
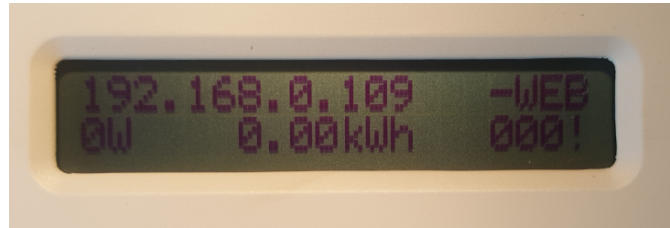


**Ethernet Cable**

**Wireless Router**

➢ Connect ECU to internet router with Ethernet RJ45 cable and power ECU, connect the PC to the router through Wifi or RJ45 cable.

➢ The router will automatically set up an IP address to the ECU

**Phone**

**PC**

**Pad**

192.168.0.109   -WEB
0W   0.00kWh   000!
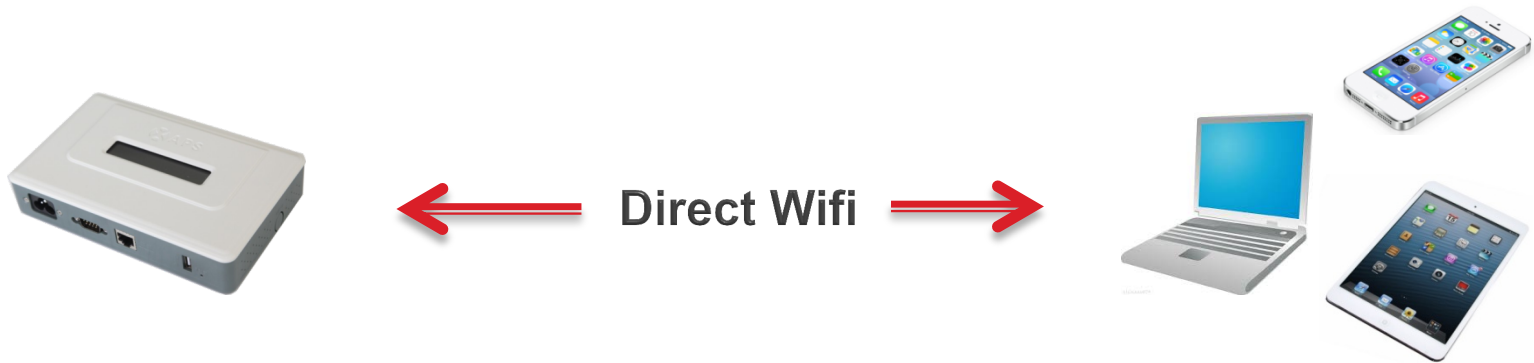
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# Check the IP address



The IP address must not be
**60.190.131.228** or **192.168.131.228**
If it is, that means the ECU is not connected
to the router

# Option 2 : only V4



**Direct Wifi**

➢ Power ECU, select Wifi network **ECU-WIFI_XXXX** with your computer or smartphone,  click on "connect automatically" and then click on "connect" No password requested
➢ then your device is connected to the ECU through Wifi

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# 2 - Connect to the ECU local interface

1 : ECU local interface ECU-3 V3
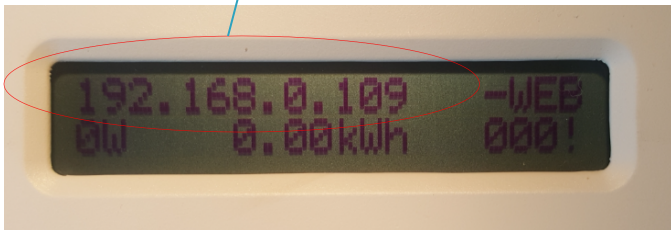
2 : ECU local interface ECU-3 V4

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# 1 - ECU-3 V3

**enter the IP address of the ECU in the internet browser**
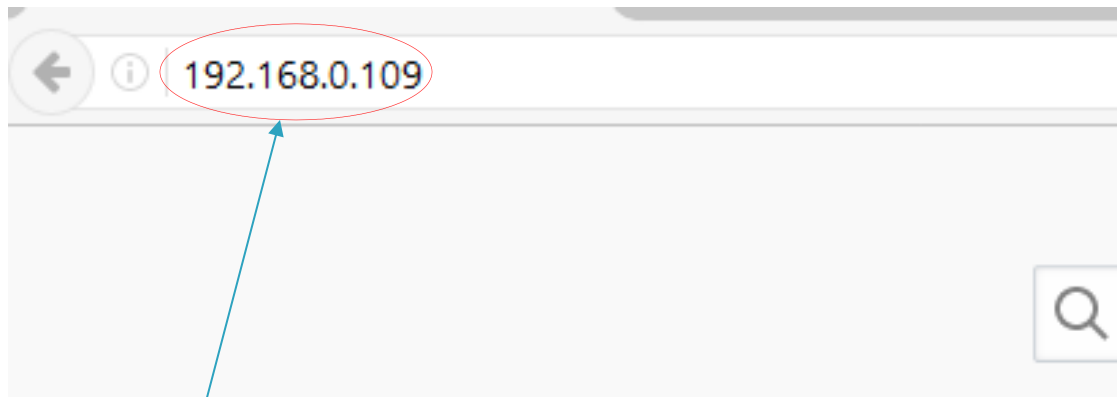


**then click on «enter » and reach automatically the ECU local interface**

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# Input UID number of Microinverter
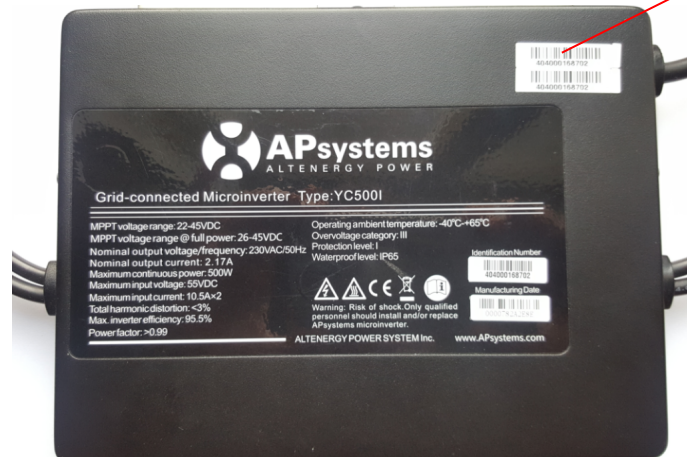
# Microinverter UID

It is a 12 digits ID located on a label sticked on the front of the ECU case.

UID helps to identify each microinverter and his version :

- starting with **404** -> **YC500**

- starting with **501** -> **YC1000**

# Input UID number of Microinverter

**Enter all UID numbers in the tab, manually or via Barcode Scanner App with your smartphone (copy/past all IDs from word or xls doc)**

404000169828
404000170409
404000170478
404000170885
404000171026
404000171225

**Then click on « OK »**



**APS**

English/Chinese

Home          Real Time Data          Configuration          Administration

ID Management          Date,Time,Timezone          Language          Network Connectivity

Enter Inverter ID:
404000169828
404000170409
404000170478
404000170885
404000171026
404000171225

OK

Clear ID

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# Input UID number of Microinverter

**ID numbers are set up**

# Set up Time zone

**Click on « Date,Time,Timezone », then into « Select Time Zone » choose the right one in the rolling menu**

**then click on « Update Timezone »**

**Warning : wrong Time Zone setting will display wrong time information in EMA and affect production curve**

APS

English/Chinese

Home          Real Time Data          Configuration          Administration

ID Management          Date,Time,Timezone          Language          Network Connectivity

Date:
03/05/2017
Time:
16:00:54
Update date and time

Time Zone: [Current Time Zone: Europe/Paris]
Select Time Zone
Update timezone

NTP Server:
0.asia.pool.ntp.org
Update NTP server setting

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**ECU configuration is completed**
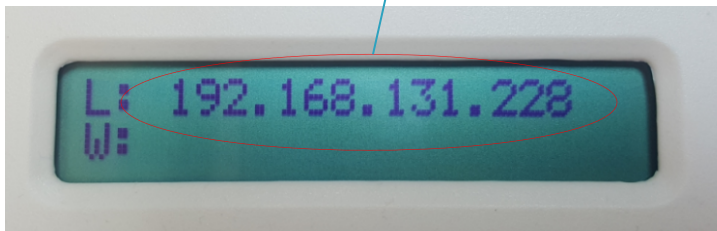
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# 2 - ECU-3 V4

**enter IP address displayed in ECU screen into the internet browser :**

**"L" if connected through internet router or direct LAN to the computer**
**"W" if connected through WiFi to the computer**

192.168.131.228

**Then click on «enter»**
**to access to the ECU local interface**

L: 192.168.131.228
W:

**AP**systems
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# Input ID number of Microinverter

**Select « Administration »**



English | Chinese

**APsystems**
ALTENERGY POWER

ENERGY COMMUNICATION UNIT

Home | Real Time Data | Administration

## Home

| ECU ID | 204000006898 |
|---|---|
| Lifetime generation | 1.55 kWh |
| Last System Power | 0 W |
| Generation of Current Day | 0 kWh |
| Last Connection to website | 2017-01-05 12:32:14 |
| Number of Inverters | 0 |
| Last Number of Inverters Online | 0 |
| Current Software Version | V4.0 |
| Current Time Zone | Europe/Paris |
| ECU Eth0 Mac Address | 80:97:1B:00:95:A1 |
| ECU Wlan0 Mac Address | 60:C5:A8:E5:76:50 |
| Inverter Comm. Signal Level | 5 |

2017-04-06 16:00:29
Thursday

**ENVIRONMENTAL BENEFITS**

$CO_2$ Offset Equivalent to

0
GALLONS

0
TREES

1
KG

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# Input ID number of Microinverter

**Enter all UID numbers in the tab, manually or
via Barcode Scanner App with your smartphone
(copy/past all IDs from word or xls doc)**

English | Chinese

## APsystems
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**ENERGY COMMUNICATION UNIT**

Home | Real Time Data | Administration

**ID Management**

404000169828
404000170409
404000170478
404000170885
404000171026
404000171225

**Then click on
« Update»**

Update    Clear ID

| ID Management |
| --- |
| Date,Time,Time Zone |
| Language |
| Network Connectivity |
| WLAN |
| Firmware Update |
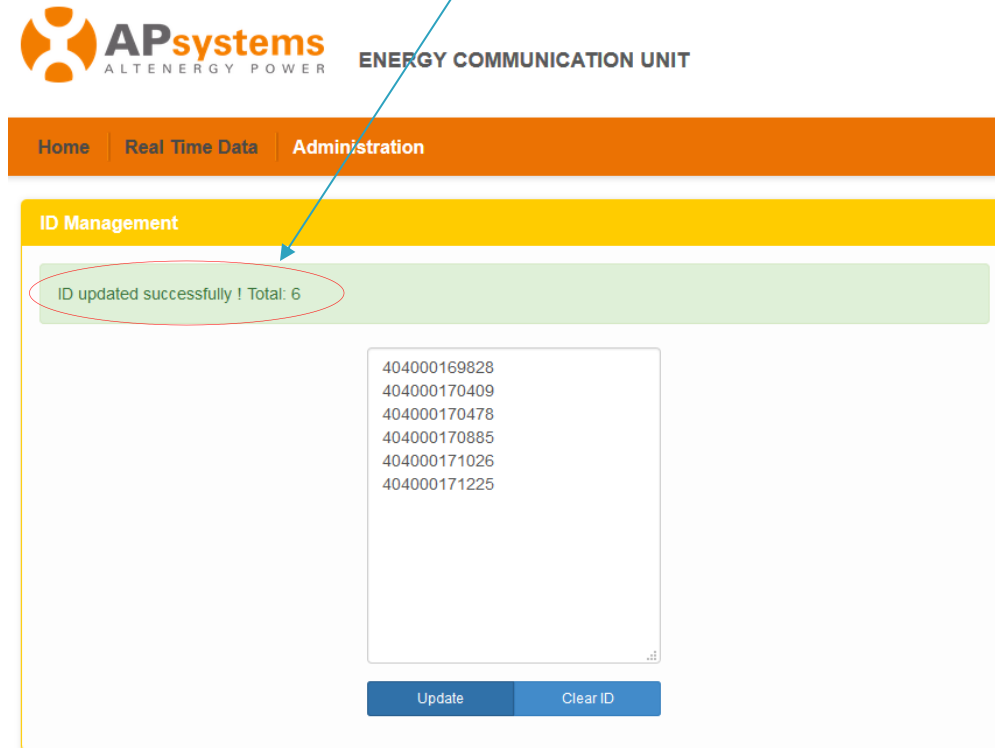
## APsystems
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# Input ID number of Microinverter

# Set up Time zone

**Click on « Date, Time, Time zone »**

**Click on Timezone menu and choose the right one in the rolling menu**

English | Chinese

![APsystems ALTENERGY POWER] **ENERGY COMMUNICATION UNIT**

Home | Real Time Data | **Administration**

**Date, Time, Time Zone**

Date Time: 2017/04/06 16:11:18
Update

Time Zone: Europe/Paris
Update

NTP Server: 0.asia.pool.ntp.org
Update

ID Management
Date, Time, Time Zone
Language
Network Connectivity
WLAN
Firmware Update

**Warning : wrong Time Zone setting will display wrong time information in EMA and affect production curve**

**then click on « Update »**

**ECU configuration is completed**

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# WiFi connection to router (optionnal)

**If you cannot connect ECU with Ethernet cable (recommanded), from Administration menu click « WLAN »**



**Choose WiFi network**

**Entrer password and click«Connect»**

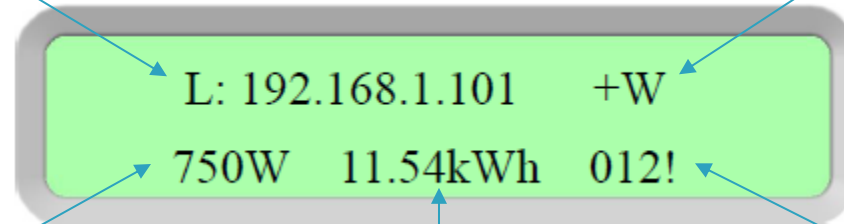**ECU configuration is completed**

# ECU Screen

IP address set up
by internet router

+W = connected to monitoring
-W = not connected

L: 192.168.1.101    +W
750W    11.54kWh    012!

Real time power (W)

Life time production
(kWh)

Number of inverter
communicating with ECU
« ! » indicates inverters are missing

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# How to fix connection issues

IP address set up by router,
should not be **192.168.131.228**

If it is that means ECU
is not connected to the router
-> check connection ECU<->router

Is supposed to be **+W** when communication is ok
If **–W** that means ECU doesn't send data to EMA servers
-> Check communication chain inverters->ECU->router->internet

L: 192.168.1.101    +W

750W    11.54kWh    012!
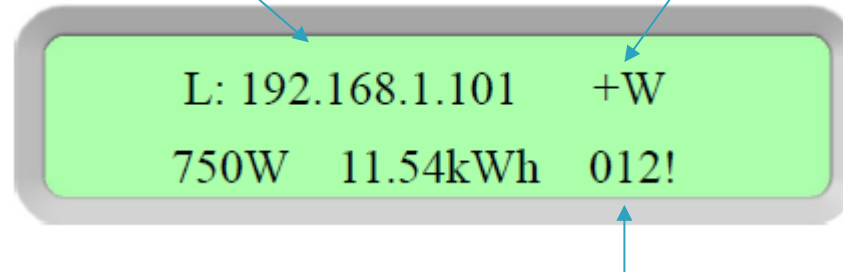
Number of inverters communicating with ECU
If **000!**
-> check inverters ID have been entered into ECU
-> check inverter ID are the right ones
-> check zigbee or PLC communication (ECU<->micros)

If IP address is ok,
number of inverters communicating with ECU is not **000!**
And ECU displays **–WEB** :
-> check router internet connection
-> check internet access through the router

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