Checkout scale

Dibal DPOS-400

Prerequisites

To use a scale with Extenda Go POS, you need to get a Dibal DPOS-400 scale and an Airconsole LE DB9 device for communication, from your preferred supplier:

Scale: https://www.dibal.com/en/weight-only-or-price-computing-scales-dpos-400

Dongle to Scale: https://www.get-console.com/shop/en/airconsole-le/136-airconsole-le-db9.html

Make sure to select a version of Dibal DPOS-400 with a weight display, as a weight display is not implemented in Extenda Go POS. This would inhibit certification in many countries. [1]

Setup the scale

Assemble your Dibal DPOS-400 scale following the instructions delivered with the scale. The final result should look like this:
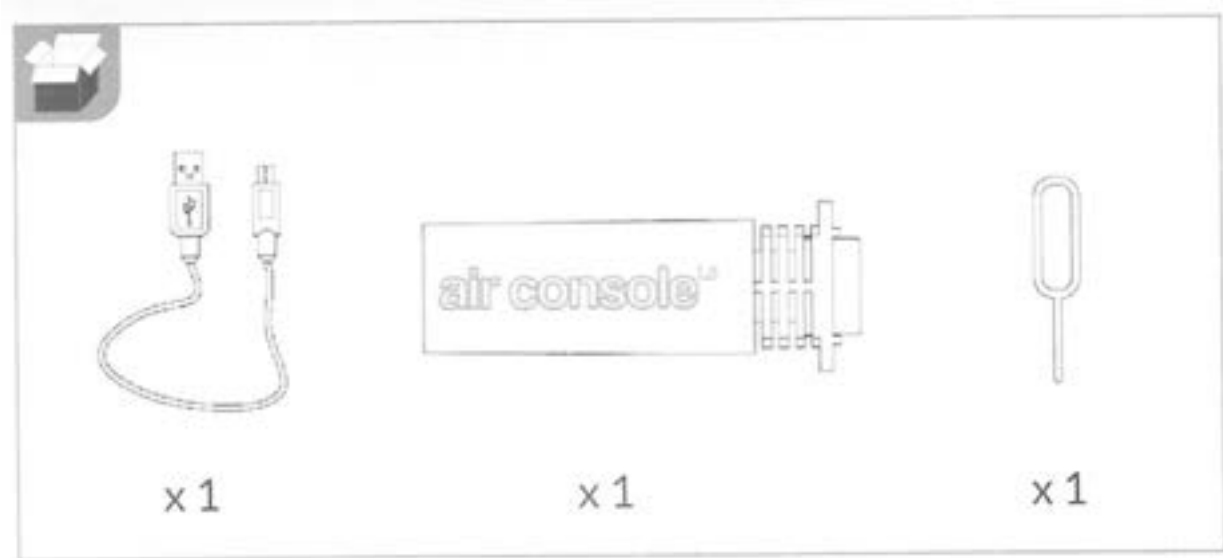

The scale needs to be powered from the USB port. Not all scales are delivered with a power supply for this, clarify this with your supplier before ordering.

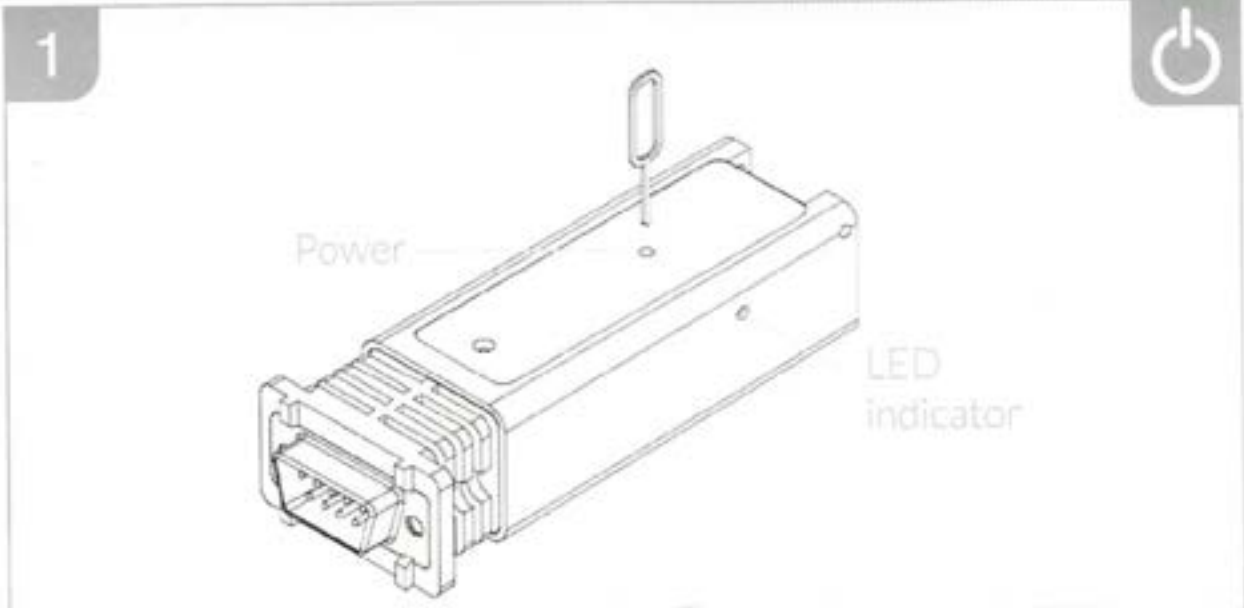extendaGO

Prepare your Air console device

Checking the contents of the box

The Airconsole LE DB9 unit comes in a box with the following content:

- The Airconsole device
- Charging cable
- Reset Pin
- Quick start guide

Firing up the device

Your Airconsole LE ships in hibernation mode. To get started press and hold the power button for 2 seconds using the provided pin. You only need to do this once. The LED indicator should flash green twice. If not, please see charging instructions below. Airconsole LE is now on and stays on.

You can check the LED on the device to verify the state it is in:

LED Indication	Operation mode	Description
○ Flashing every 45 seconds	Sleep/Active	Device on, battery level is good
○ Flashing every 45 seconds	Sleep/Active	Device on, battery level is low
○ Flashing every 5 seconds	Active	Serial port active
● Solid	Sleep/Active	Device charging
● Solid	Sleep/Active	Device fully charged
● Fade out over 2 seconds	Sleep/Active	Device off

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Connect the device to the scale

Insert the Airconsole device into the RS 232 serial port of the scale.

Using default value for serial communication, you only need to set the scale to the protocol implemented by Extenda Go POS, which is NCI.

Selecting protocol on the scale

Extenda Go POS uses protocol NCI. This is a simple challenge-response protocol supported by many scales. This setup explains the selection of this protocol for Dibal DPOS-400.

Extenda Go POS uses a challenge-response protocol so you can make sure you have put the product properly on the scale before you weigh. This protocol works by POS sending a request to the scale for the weight value, and if the weight value is stable, it is sent back to POS.

To select the protocol, you need to restart the scale. You do this by holding the Zero button for some seconds to turn the scale off, then push the zero button to turn the scale on.

During the display initialization, all numbers are flashing, counting down from 9 to 0. Before reaching 0, push both 0 button and TF button at the same time:
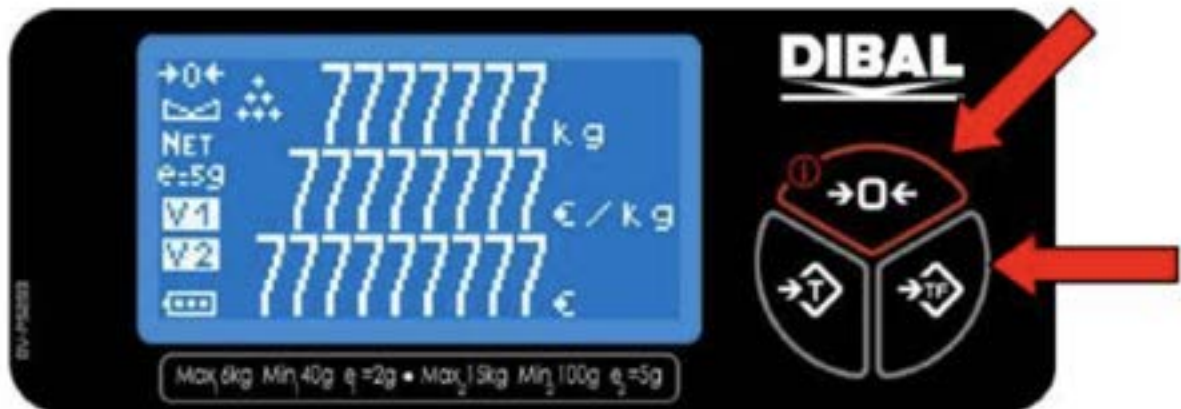
Display will then show the following screen:

Now hold 0 button for a short while, only not long enough to turn the scale off again :) If you do, just start over again. You should end up on this screen:

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By pressing 0, you will increase the communication parameter setup, pressing T will decrease the selection. You can leave the selection at 0, which according to the following table gives you communication at 9600 baud, 8 data bits, 1 stop bit, no parity:

Type	Bauds	Data Bits	Stop Bits	Parity	Type	Bauds	Data Bits	Stop Bits	Parity
0	9600	8	1	No	20	4800	7	1	Even
1	9600	8	1	Even	21	4800	7	1	Odd
2	9600	8	1	Odd	22	4800	7	2	Even
3	9600	8	2	No	23	4800	7	2	Odd
4	9600	7	1	Even	24	2400	8	1	No
5	9600	7	1	Odd	25	2400	8	1	Even
6	9600	7	2	Even	26	2400	8	1	Odd
7	9600	7	2	Odd	27	2400	8	2	No
8	19200	8	1	No	28	2400	7	1	Even
9	19200	8	1	Even	29	2400	7	1	Odd
10	19200	8	1	Odd	30	2400	7	2	Even
11	19200	8	2	No	31	2400	7	2	Odd
12	19200	7	1	Even	32	1200	8	1	No
13	19200	7	1	Odd	33	1200	8	1	Even
14	19200	7	2	Even	34	1200	8	1	Odd
15	19200	7	2	Odd	35	1200	8	2	No
16	4800	8	1	No	36	1200	7	1	Even
17	4800	8	1	Even	37	1200	7	1	Odd
18	4800	8	1	Odd	38	1200	7	2	Even
19	4800	8	2	No	39	1200	7	2	Odd

Press TF to move on to protocol selection:

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Push the 0 button repeatedly with short taps until the protocol selected shows 16, NCI

| Código	Protocolo	Código	Protocolo
1	ANKER	26	-------
2	TPV CASIO	27	DATECS
3	RIVA / UNIWELL	28	TPV CASIO NUEVO
4	TISA	29	-------
5	EAN a PC ICL	30	DIALOG 06 sin atender al peso mínimo
6	SANYO	31	ELZAB
7	APOLLO/SAMSUNG POLONIA	32	TOWA
8	DELTA	33	SHARP UP-700-2
9	ALFA	34	QT-6000
10	DOLAR/SAMSUNG ESPAÑA	35	OLIVETTI
11	SAMSUNG PORTUGAL	36	TF-1000
12	UNIPROX (BMC PS-2000)	37	SHARP UP-800
13	UNIPROX con checksum	38	IBM
14	SHARP UP-700	39	DIALOG 06 sin atender a la tara recibida
15	KABEL (ITALIA)	40	DIALOG 06 sin atender a peso mínimo ni a la tara recibida
16	NCI	41	-------
17	ECR-POSNET	42	DIBAL Terminal
18	TISA con envío en peso estable	43	IBM/HUGIN "SERD" para cajas CHD 3010
19	VD TISA	44	ANKER con envío de peso cero
20	VD SEUR	45	COM (DATECS 2)
21	UNIPROX con 6 dígitos de precio	46	SAMSUNG CHINA
22	STAR (con envío en peso estable)	47	HUNAN WEIBOSHI
23	-------	48	METTLER (PRECIA)
24	Checkout_Dialog06	49	CARREFOUR
25	EUROSTAR 2000T ALPHA	50	DIALOG 02/04

When done, push TF until you are back on the weight display screen. Restart the scale by holding 0 in for some seconds.

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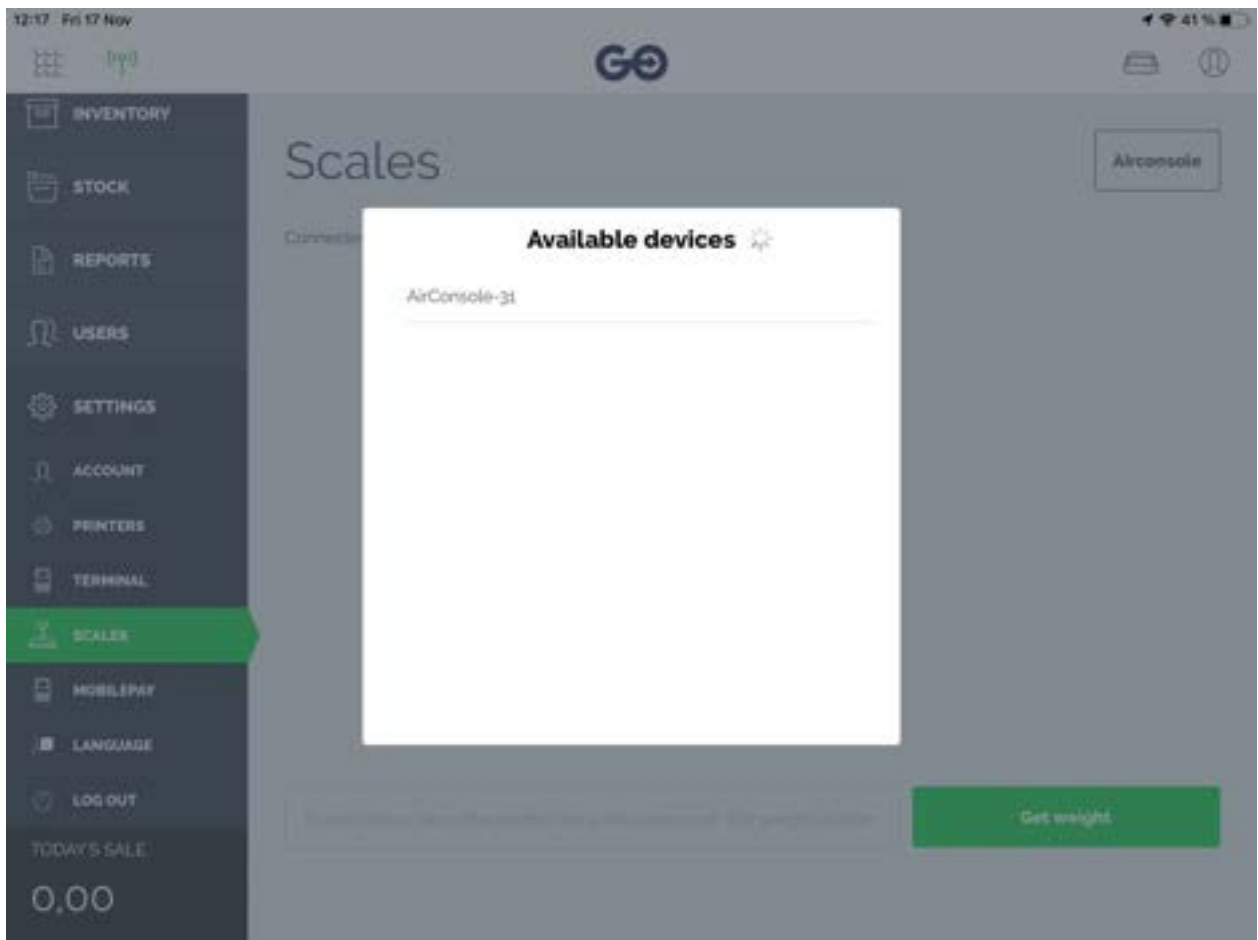
Setting up the scale in POS

Items that should be weighed, needs to be set to unit type of either g,hg,kg. The max capacity of the scale is 15 kg.

Go into POS backoffice, select Settings, Scales, Select integration, push Airconsole:
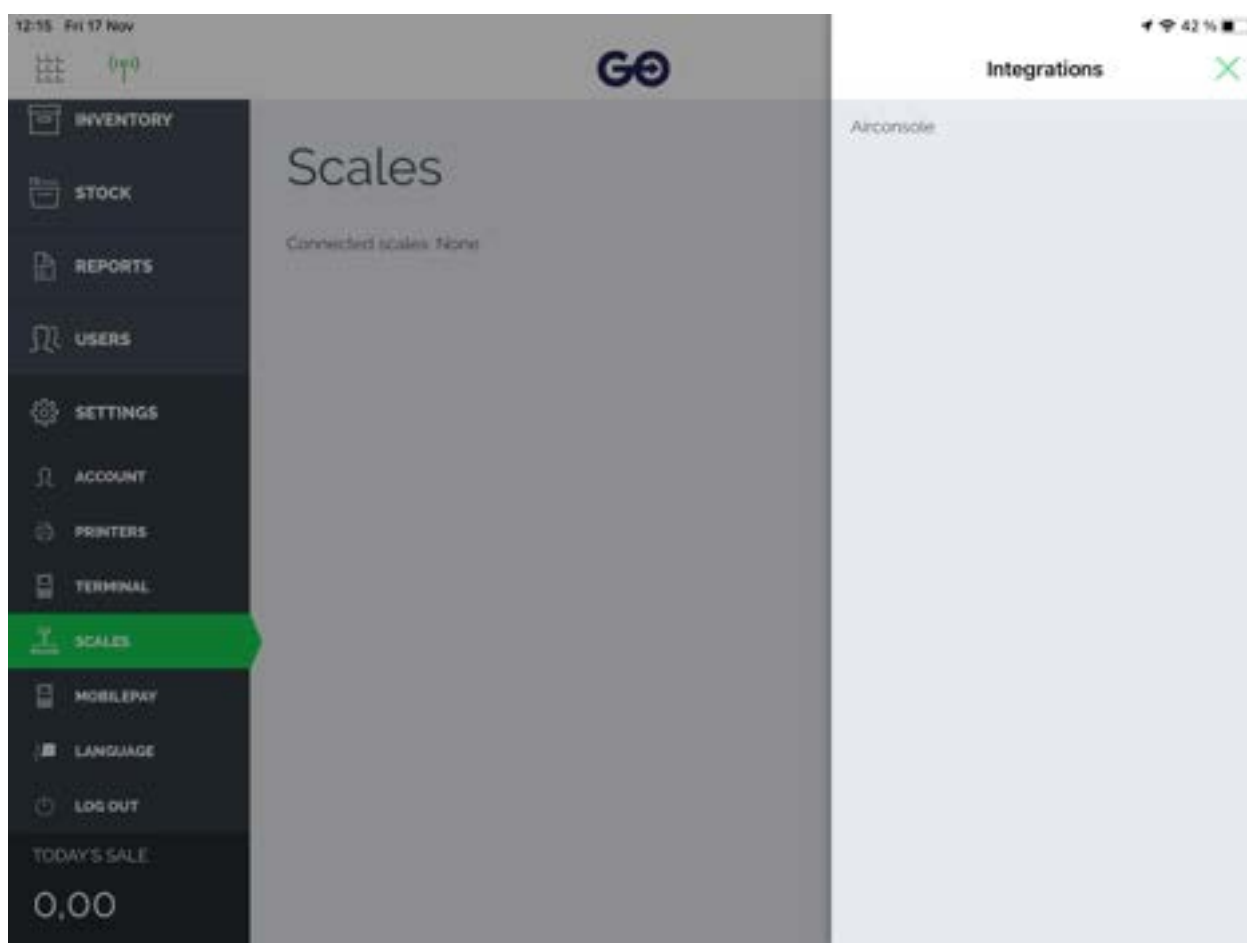

POS will now use BLE to search for Airconsole devices nearby. The results are shown in a list:

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The number shown corresponds to the serial number of the device, and can be checked on the device as the third and second last numbers displayed on the label.

Tap the desired device in the list, and POS will then start talking to the scale through this device.

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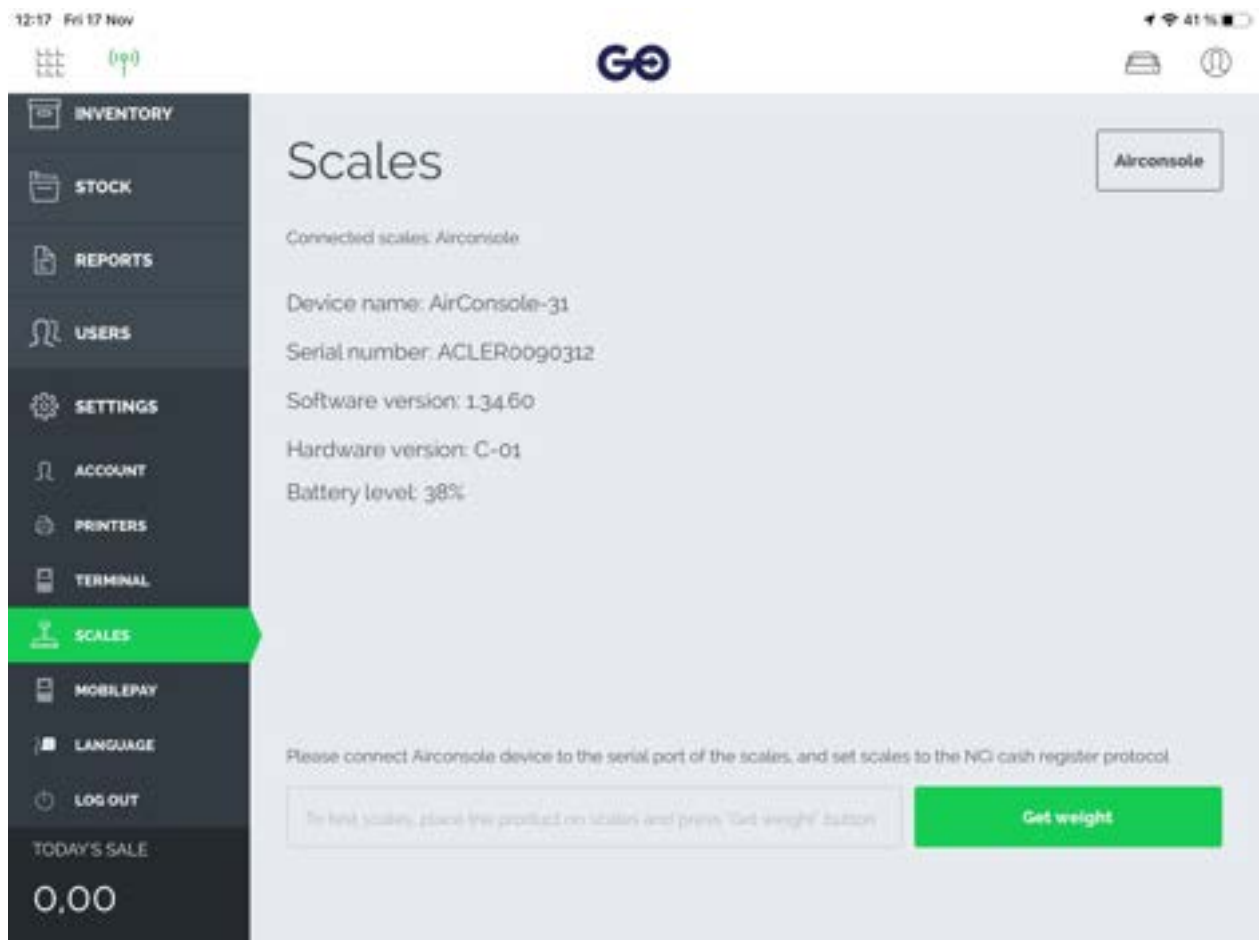
You will see status information collected from the Airconsole device.

Put an item on the scale, and verify that you get a weight value shown in the field.

Now, your scale icon will be green in POS, and when you sell weight items, you will get a dialog giving you the option to ask the scale for the weight, or input the weight manually.

Checking communication parameters

If you are not able to get the communication flowing, you need to check that the communication settings on the Airconsole device match the settings on your scale. To modify your Airconsole LE settings download and install "ACLE Updater" from the Apple App store:

To modify your Airconsole LE settings download and install "ACLE Updater" from the Apple App store.

Discovered
AirconsoleLE-A3

View status

Keep searching

Your Airconsole LE will appear after scanning. Select "View status" to see default configuration.

Select edit if you wish to change settings. Tap push to confirm changes. Your Airconsole LE will automatically reboot.

Hostname	AirconsoleLE-A3
Serial Number	020101010013
Password	Admin
Serial	
Baud Rate	9600
Databits	8
Parity	None
Stopbits	1
Bluetooth	
Security Level	NoSecurity
Security Pin	
Bluetooth LE Mode	Fav
Bluetooth	1
Telnet Auth	
Push	

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