

**ASCO Configured Access Point**

If you have ordered a wireless access point with your SIGMA Wireless Gateway please follow the instructions below. The ASCO access point will allow a network of up to 100 SIGMA wireless gateways.

 Please update your load bank to the latest firmware. Download here: <https://tinyurl.com/utfjtza>



1. Connect and power up the access point/s or ensure existing wireless network is available.



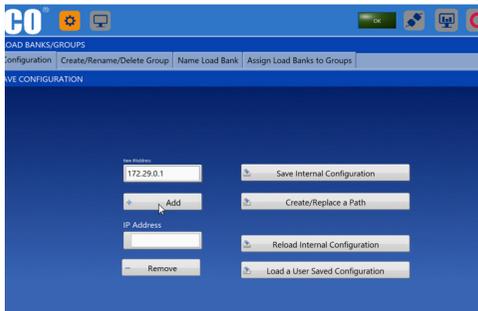
2. Connect the DB9 cable into the gateway and connect to the load bank.



3. Power up load bank.



4. LED on the Gateway will blink green once per second when connected to the network.



5. Use SIGMA Network Pro or Modbus based software to discover and connect to the Gateway(s).

**For setup support please contact [froment.support@ascopower.com](mailto:froment.support@ascopower.com) or call +44 (0) 1780 480033.**

The Modbus/TCP protocol is inherently insecure and therefore should be used with care to avoid sensitive information disclosure and unauthorized access. To mitigate the risks associated with weaknesses in the Modbus/TCP protocol, users should set up network segmentation and implement a firewall to block all unauthorized access.

## User Configured Access Point

If you wish to connect your SIGMA Wireless Gateway to your own wireless access point(s) please follow the instructions below.



1. Connect and power up the access point/s or ensure existing wireless network is available.



2. Connect the DB9 cable into the Gateway and connect to the load bank.



3. Power up load bank.



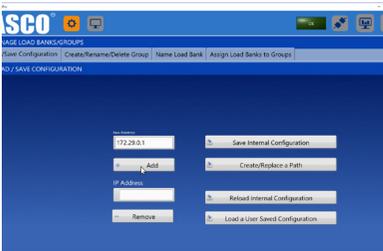
5. Add .conf file to the root of a USB flash drive and insert into each Gateway. The red LED will illuminate when the update has completed.



6. Remove the USB drive. If the network is available the green LED will blink every second, otherwise it will blink every 200ms.



7. For SIGMA LT load banks press and hold mode for 3 seconds to display IP address of the wireless Gateway.



9. Use SIGMA Network Pro or Modbus based software to discover and connect to the Gateway(s).



The SIGMA Wireless Gateway can also be configured as an Access Point (AP). Please contact our support team for more information:

[froment.support@ascopower.com](mailto:froment.support@ascopower.com)



Please update your load bank to the latest firmware. Download here: <https://tinyurl.com/utfjtza>

```
#  
# wpa_supplicant.conf  
# Wi-Fi AP configuration file  
#  
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev  
update_config=1  
country=GB  
  
network={  
  ssid="LOADBANK_AP1"  
  psk="loadbank12"  
}
```

4. Download **wpa\_supplicant.conf** from: <https://tinyurl.com/tne89gj>. The file allows the user to edit the Wi-Fi AP configuration. Open the file in a text editor and for each additional gateway repeat the network code snippet.

```
#  
# dhcpcd.conf  
# customer network config  
# comment out all config lines to get IP address from DHCP  
#  
# wired interface static IP address  
interface eth0  
  static ip_address=172.29.0.10/19  
  static routers=172.29.0.1  
  static domain_name_servers=8.8.8.8  
  
# wireless interface static IP address  
interface wlan0  
  static ip_address=172.29.0.10/19  
  static routers=172.29.0.1  
  static domain_name_servers=8.8.8.8
```

8. If you wish to create static IP addresses for each Gateway, please download **dhcpcd.conf** from: <https://tinyurl.com/s4t2fv9>. Open the file in a text editor and enter required static IP address for the Gateway. Add the updated **dhcpcd.conf** file to the root of a USB drive. Plug the USB drive into the Gateway. The red LED will illuminate when the update has completed. Please contact us for scripts that update multiple gateway IP addresses.