

First time setup of an ESP-based WiFi-module

Configuration with GHL Control Center over USB

- 1 In GCC navigate in the menu tree to System->Communication.
- 2 Enter the relevant WiFi-mode (in most cases this is Client-mode/Infrastructure). Fill out the credentials SSID/Passphrase of the router and ip configuration.
- 3 Save the settings and disconnect, which triggers a restart on the WiFi-module.

Auto-Configuration with WPS (Push-Button-Method)

➤ If no valid configuration is available after startup

- 1 Activate the WPS-method on your router.
- 2 Plug in the GHL-device's power cord and let it start.
- 3 The WPS-method tries to finish the authentication in a time window of 30 seconds.
- 4 When the configuration is valid, the WiFi-module restarts automatically and connects to the router.

Auto-Configuration in Access-Point-Mode

- 1:1-connection between a e.g. smartphone etc. and the WiFi-module.
 - Activated after a failed WPS-method in unconfigured mode.
- 1 If a previously made WPS-method did not succeed, the AccessPoint-Mode will be accessible for 5 minutes.
 - 2 The GHL-device will be visible in your WiFi-scanner and after selecting and connecting to it with the passphrase **Starfish**, the assigned IP address is 192.168.4.1.
Once you are connected, the connection will be held open until a restart of the GHL-device.
 - 3 Connect to the WiFi-module and make the configuration either in GHL Control Center or using the internal Webinterface by using the IP-address **192.168.4.1**

Deactivating WiFi

- 1 In GHL Control Center navigate to System->Communication, check the option 'WiFi Off'.
- 2 An unconfigured module without stored data, will be shutoff after five minutes.