INSTRUCTIONS FOR USE

WPM REPEATER

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WPM Repeater

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1 INTRODUCTION

1.1 Intended use

The WPM repeaters are used to extend the WPM system for areas where no press control is required, but the monitoring of tools is to be carried out.

1.2 System requirements

The WPM repeaters are intended solely for use with the WPM cloud application. You need a running WPM cloud application for operation.

The WPM cloud application must be accessible via port 8883.

The WPM repeater can be integrated either via WLAN or via LAN into the company network.

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2 COMMISSIONING

Please proceed as follows to commission the WPM repeaters:

1) Create the WPM repeater in the cloud application as gateway at the desired location.
   Note: As the password, use the printed MAC address.
   This should look like this: ac-23-3f-c0-7f-f9
2) Import the configuration file available on the cloud onto the supplied USB stick.
3) Edit the network configuration (network.config) on the USB stick according to your requirements.

The points highlighted in red in the example **must be** edited in any case. The other points can be changed according to your needs or remain unchanged.

Example (DHCP):

– **config interface 'loopback'**
  - option ifname 'lo'
  - option proto 'static'
  - option ipaddr '127.0.0.1'
  - option netmask '255.0.0.0'

  config device 'wlan_dev'
  - option name 'wlan0'

  config interface 'wwan'
  - option ifname 'wlan0'
  - option proto 'dhcp'

  config device 'lan_dev'
  - option name 'eth0'

  config interface 'wan'
  - option ifname 'eth0'
  - option proto 'dhcp'

4) Connect the repeater to the network via a network cable (for cabled installation). Alternatively, you can also connect the repeater to the existing WLAN.
5) Edit the wireless.config on the USB stick according to your requirements.
   Example:
   config wifi-device 'radio0'
   - option type 'mac80211'
   - option channel 'auto'
   - option hwmode '11g'
   - option path 'platform/10300000.wmac'
   - option htmode 'HT20'
   - option disabled '0'

config wifi-iface
- option device 'radio0'
- option network 'wwan'
- option mode 'sta'
- option ssid 'YOUR_SSID'
- option encryption 'psk2'
- option key **'YOUR_PASSWORD'**

6) Plug in the power supply unit and switch on the device.
7) Plug the USB stick with the configuration into the repeater.
8) The LED ring on the repeater changes to a green/blue LED and starts to fill the LED circuit slowly.
9) When the LED ring is completely lit in green, you can remove the USB stick and the installation was successful.
   Note: If the LED ring lights up red, there was an error during the installation. Check the possible solutions in the Troubleshooting chapter.
10) The repeater will then attempt to establish the connection with the WPM cloud. When the LED ring lights up completely orange, the process has been successful and the repeater should be reported as connected in the WPM cloud.
    Note: If the LED ring does not light up completely in orange, check for possible causes in the Troubleshooting chapter.

3 FIRMWARE UPDATE

To update the WPM repeater firmware, import the Firmware update file onto the WPM USB stick and plug it into the WPM repeater.

When the LED ring is completely lit in blue, the stick can be removed and the update process is started.

NOTICE

Damage to the device

Do not disconnect the power supply during this process to avoid damaging the device.

4 TROUBLESHOOTING

If an error occurs during configuration, this will be indicated by the colours of the LED ring. In addition, a LOG file is written to the USB stick for more in-depth analysis. If the following table does not result in a solution, send the LOG file to our support for error analysis.

In particular for checking the network configuration, an **ifconfig.old.XXX.log** is saved to the USB stick in the "Logs" directory **ifconfig.new.acXXX.log**. In this file, you can find the assigned IP address of the gateway before configuration and after configuration.

LED ring Colour/status	Error	Troubleshooting
Completely red (USB stick can be removed)	WPM configuration not on the USB stick	Import configuration and try again
	Network configuration was not valid	Check the network configuration file and try again
	WPM configuration not suitable	Ensure that the WPM configuration on the USB stick matches the repeater (printed MAC address = filename)
	Repeater firmware was not valid	Check the firmware file or copy it onto the USB stick again
Ring lights up partly in orange (4 LEDs lit)	Repeater cannot establish a connection to the WPM cloud	Check the network settings. Check the repeater configuration. Ensure that the repeater can access the cloud via port 8883
An LED in the ring lights up red (after the USB stick has been inserted)	USB stick cannot be read	Check the USB stick on the PC for errors. Restart the repeater and try again

5 APPENDIX

5.1 Personal notes

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More information at

www.fibro.de/downloads-springs-gas springs/

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