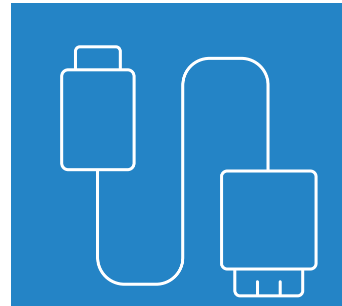
SECURE. NETWORKS.

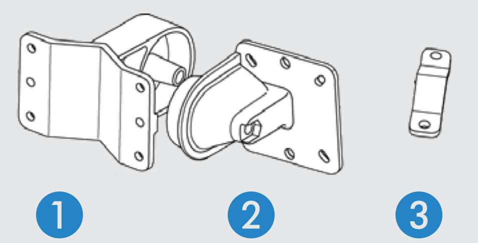
LANCOM OAP-822
Quick Reference Guide



Cloud-ready

LANCOM Systems

Mounting



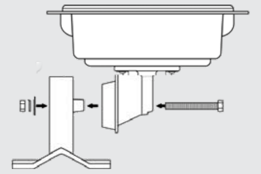
Screw the connector flange ② to the back of the housing with the four screws and their washers.

When fastening the clamp profile ③, please pay attention to tighten the screws equally with a maximum torque of 7 Nm!

Wall mounting

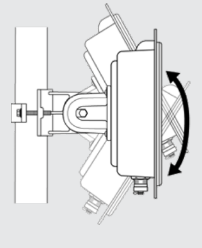
Use the mounting arm ① as a template. Fix the mounting arm to the wall with the supplied screws and dowling plugs.

Attach the access point with the connector flange ② to the mounting arm ①. Use the M8 x 110 bolt with spring locking washer, washer and nut.



Pole mounting

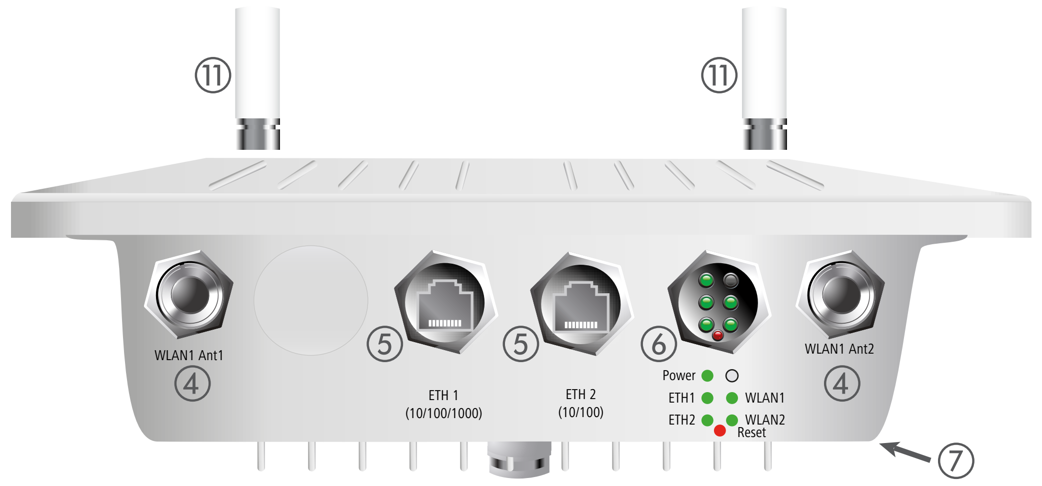
Place the clamp profile ③ around the pole. Screw the clamp profile onto the mounting arm with the supplied screws.



The main beam direction of the integrated antenna can be adjusted by tilting the access point up or down by rotating the connection flange about the mounting arm.

Installing access points and/or external antennas without adequate lightning protection can lead to serious damage to the devices and/or to the related network infrastructure.

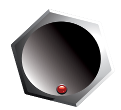
MOUNTING AND CONNECTING THE DEVICE



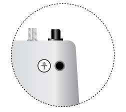
④ **Wi-Fi antenna interfaces**
For the WLAN1 module, screw the supplied WLAN antennas to the connectors WLAN1 Ant1 and WLAN1 Ant2.

⑤ **ETH 1, ETH 2 interfaces**
The ETH 1 connector also supplies power to the device. Plug in the water-proof power cable to the ETH 1 port and carefully tighten the threaded connector. Connect the other end of the network cable to the ‚Power Out' connector ⑩ of the supplied PoE injector. Connect the interface ETH 2 with a sealed Ethernet cable to your PC or a LAN switch.

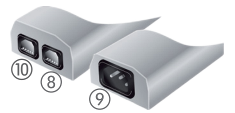
⑥ **Reset button (part of the LED block)**
To restore the device to its default configuration, keep the reset button on the device pressed until the LEDs on the device go out. The following automatic restart restores the default configuration to the device.



⑦ **Grounding**
Screw one end of the green/yellow grounding wire to the housing and attach the other end to a suitable ground.



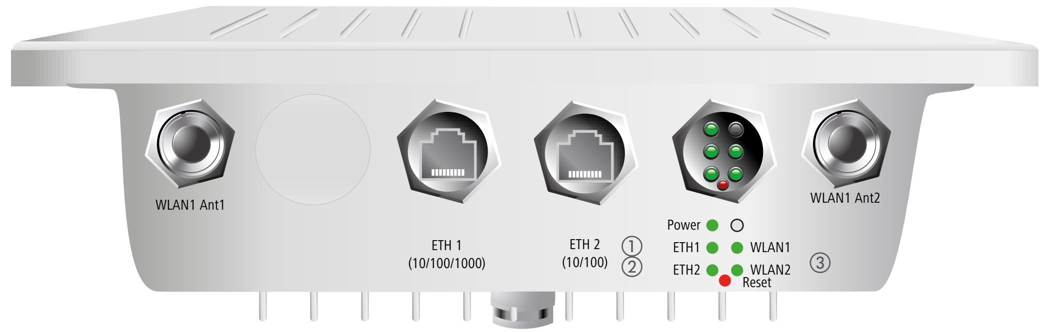
⑧ ⑨ ⑩ **PoE injector - ⑧ LAN-In / ⑩ Power-Out / ⑨ Power supply interfaces**
Using Ethernet cables, connect the ‚LAN-In' interface ⑧ of the provided PoE injector to a free socket of your local network and the ‚Power-Out' interface ⑩ to the ETH 1 interface of the access point.
Supply power to the PoE injector ⑨. Only use the supplied PoE Injector to supply power to this device. Particularly, do not connect the PoE Injector to non-PoE Ethernet devices!



⑪ **Wi-Fi antenna interfaces at the rear side**
The WLAN2 Wi-Fi antenna interfaces are located at the rear side of the device

The housing of the device may become warm during operation.
If the device is operated with outside temperatures exceeding 60 °C, it should be mounted with protection against contact.
When operating both Wi-Fi modules in the same frequency band, mutual interference cannot be ruled out.

Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!
Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.



① Power	
Off	Device switched off
Green, permanently*	Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible
Green, blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.
1x green inverse blinking*	Connection to the LMC active, pairing OK, device not claimed
2x green inverse blinking*	Pairing error, resp. LMC activation code not available
3x green inverse blinking*	LMC not accessible, resp. communication error

② ETH 1 / ETH 2	
Off	No networking device attached
Green, permanently	Connection to network device operational, no data traffic
Green, flickering	Data traffic

③ WLAN1 / WLAN2	
Off	No Wi-Fi network defined or Wi-Fi module deactivated. The Wi-Fi module is not transmitting beacons.
Green	At least one Wi-Fi network is defined and Wi-Fi module activated. The Wi-Fi module is transmitting beacons.
Green, flashing inverse	Number of flashes = number of connected Wi-Fi stations and P2P wireless connections, followed by a pause (default). Alternatively the frequency of the flashing can indicate signal strength over the defined P2P link or the signal strength between the access point and the device operating in client mode.
Green, blinking	DFS scanning or other scan procedure
Red, blinking	Hardware error in Wi-Fi module

*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

TECHNICAL DETAILS

Hardware	
Power supply	Via Power-over-Ethernet compliant to IEEE 802.3af
Power consumption	PoE: 12,95 W (measured at the PoE injector)
Environment	-33 °C to +70 °C
Housing	Robust metal housing, protection class IP 66, for wall and pole mounting. Note: For installation in salt water environments please use a suitable outer housing. Dimensions 255 × 250 × 70 mm (length x width x depth)

Wi-Fi	
Frequency bands	2.4 GHz or 5 GHz, 2400-2483.5 MHz (ISM) or 5150-5825 MHz (restrictions vary between countries)
Minimum transmission power	Transmission-power reduction in software by 1 dB steps to min. 0.5 dBm
Radio channels 2.4 GHz	Up to 13 channels, max. 3 non-overlapping (2.4-GHz band)
Radio channels 5 GHz	Up to 26 non-overlapping channels (channels available vary according to country regulations; DFS for automatic dynamic channel selection required)

Interfaces	
ETH 1	10 / 100 / 1000 Mbps auto-sensing, PoE as per IEEE 802.3af
ETH 2	10 / 100 Mbps, preconfigured LAN port, re-configurable to WAN port
External antenna connectors	4 NJ connectors

Declaration of conformity

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/EU, 2014/53/EU, 2014/35/EU, 2011/65/EU, and Regulation (EC) No. 1907/2006. The full text of the EU Declaration of Conformity is available at the following Internet address: www.lancom-systems.com/doc

Package content	
Cables	Water-resistant, UV-resistant Ethernet cable with screw connector, 15 m
Documentation	Quick Reference Guide (DE/EN), Installation Guide (DE/EN)
External antennas	Four 3 dBi dipole dualband Wi-Fi antennas
Mounting kit	Equipment for wall and pole mounting, screws included
Covering cap	Ensures that the unit remains sealed in case an Ethernet port is unused
PoE injector	Gigabit Ethernet PoE injector (IEEE 802.3af)
Grounding cable	To avoid electrostatic charge