

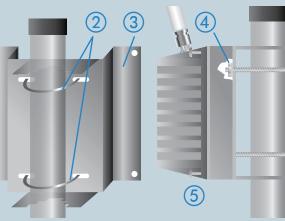
LANCOM OAP-382

Quick Reference Guide





Using suitable screws (1), mount your device in the required position on the wall. Screws for wall mounting are not supplied with the device.



Place the two U-bolts (2) around the pole (max. diam. 6cm) and use the supplied nuts and washers (3) to fix the mounting plate (4). Two mounting clamps for different post diameters are included. Mounting is completed by attaching the device to the mounting plate with the two screws

Observe the mounting instructions in the accompanying LANCOM Outdoor Wireless Guide. 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.

(4) Grounding (5) WLAN antennas

and attach the

the connectors Ant 1 suitable ground. Depending on how the antennas are to be used, the 'Antenna Grouping' may need to be configured in order to provide the desired MIMO behavior.

To restore the device to its
The LAN connector also

default configuration, press supplies the power to the the reset button on the pow- LANCOM OAP-382. Plug threaded connector. Connect accessories. the other end of the power cable to the 'Power Out' connector on the supplied PoE Injector.

As an alternative

Insert an i-temp-capable SFP module into the socket. Select a cable that is suitable for the SFP ered-up device long enough in the water-proof power to a 48V source. module with appropriate connectuntil the power LED lights cable to the LAN port on LANCOM can sup- ors and follow the instructions for up **continuously** in green. the underside of the device ply a suitable cable the SFP module to connect it up. This process takes several and carefully tighten the from its range of The SFP module and connecting cable are not included, but they can be purchased as accessories.



Power ETH1 WLAN1 WLAN2 SFP Message 5) Message Device is operating normally Device switched off Red, blinking (slow) Time or charge limit reached/error Device operational message occurred Configuration password not set.) ETH 1 Without a configuration password, the configuration data in the device is No connection (no link) unprotected. Network connection ready (link) Hardware error (defective WLAN Yellow, flickering Data transmission WLAN 1 and WLAN 2 No WLAN network defined or WLAN SFP-1 deactivated in the configuration module deactivated. The WLAN module is not transmitting beacons SFP modules exist, no connection to At least one WLAN network is defined network device and WLAN module activated. The SFP module installed, connected to the Green, on WLAN module is transmitting beacons (permanently) network, no data traffic Yellow, inverse flashing Number of flashes = number of Green, flashing Data transmission connected WLAN 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. DFS scanning or other scan

Range (outdoor / P2P) eclaration of conformity Notifications Package content Cable

Via Power over Ethernet: Max. distance between access point and Power over Ethernet injector must not exceed 100m. 1 x Gigabit High Power PoE Injector is included. PoE operates with the supplied PoE adapter only. Alternatively: 1 x 48 V DC via optional 48 V cable (for additional accessories see www.lancom.eu) -30°C to +65°C at 95% max. humidity (non condensing) 235 mm x 210 mm x 80 mm (W x H x D), 3.4 kg, robust metal housing, IP66 protection rating, ready for wall and pole mounting, 6 LEDs for status display 6 LEDs for Power, Ethernet, WLAN, SFP module and Message 2.4 GHz and 5 GHz, 2400-2483.5 MHz (ISM) and 5150-5825 MHz (restrictions vary between countries) 54 Mbps as per IEEE 802.11q (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, automatic rate selection) compatible to IEEE 802.11b (11, 5,5, 2, 1 Mbps, automatic rate selection), 802.11 b/g compatibility mode or pure g or pure 54 Mbps as per IEEE 802.11a/h (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, automatic rate selection), full compatibility with TPC (adjustable power output) and DFS (automatic channel selection, radar detection) as per ETSI EN 301 893 V. 1.5.1., EN 302 502 300 Mbps as per 802.11n with MSC15 (fallback to 6.5 Mbps with MSC0). Settings for 802.11 a/g/n compatibility mode or pure q, pure a, or pure n operation, 802.11n/q, 802.11n/a Several kilometers in the 5-GHz band. The Antenna Distance Calculator is available for free from www.lancom Output power at the 802.11b: +19 dBm @ 1 and 2 Mbps, +19 dBm @ 5.5 and 11 Mbps radio module, 2.4 GHz 802.11q: +18 dBm @ 6 to 36 Mbps, +17 dBm @ 48 Mbps, +16 dBm @ 54 Mbps; 802.11n: +19 dBm @ 6.5 / 13 Mbps (MCS0/8, 20 MHz), +10 dBm @ 65/130 Mbps (MCS7/15, 20 MHz), +17 dBm @ 15/30 Mbps (MCS0/8, 40 MHz), +10 dBm @ 150/300 Mbps (MCS7/15, 40 MHz) Output power at the 802.11a/h: +18 dBm @ 6 to 24 Mbps, +17 dBm @ 36 Mbps, +16 dBm @ 48 Mbps, +15 dBm @ 54 Mbps; radio module, 5 GHz 802.11n: +18 dBm @ 6.5 / 13 Mbps (MCS0/8, 20 MHz), +10 dBm @ 65/130 Mbps (MCS7/15, 20 MHz), +17 dBm @ 15/30 Mbps (MCS0/8, 40 MHz), +10 dBm @ 150/300 Mbps (MCS7/15, 40 MHz) Minimum transmission Transmission-power reduction in software by 1dB steps to min. 0.5 dBm Reception sensitivity 802.11b: -91 dBm @ 11 Mbps, -96 dBm @ 1 Mbps; 802.11q: -96 dBm @ 6 Mbps, -83 dBm @ 54 Mbps; 802.11n: -96 dBm @ 6.5 Mbps (MCS0, 20 MHz), -79 dBm @ 65 Mbps (MCS7, 20 MHz); -95 dBm @ 13 Mbps (MCS8, 20 MHz), -75 dBm @ 130 Mbps (MCS15, 20 MHz); -90 dBm @ 15 Mbps (MCS0, 40 MHz), -75 dBm @ 150 Mbps (MCS7, 40 MHz); -90 dBm @ 30 Mbps (MCS8, 40 MHz), -71 dBm @ 300 Mbps (MCS15, 40 MHz) Reception sensitivity 802.11a/h: -95 dBm @ 6 Mbps, -82 dBm @ 54 Mbps; 802.11n: -95 dBm @ 6.5 Mbps (MCS0, 20 MHz), -77 dBm @ 65 Mbps (MCS7, 20 MHz); -94 dBm @ 13 Mbps (MCS8, 20 MHz), -74 dBm @ 130 Mbps (MCS15, 20 MHz); -91 dBm @ 15 Mbps (MCS0, 40 MHz), -74 dBm @ 150 Mbps (MCS7, 40 MHz); -91 dBm @ 30 Mbps (MCS8, 40 MHz), -70 dBm @ 300 Mbps (MCS15, 40 MHz) 1 Gigabit Ethernet port, 10/100/1000 Mbps, high-power PoE (56V) with the supplied PoE injector only Harting connector (HAN-3A SFP) small form-factor pluggable Gigabit Ethernet transceivers; copper SFP modules Four N connectors for external LANCOM AirLancer Extender antennas or for antennas from other vendors. antenna connectors Please respect the restrictions which apply in your country when setting up an antenna system. For information about calculating the correct antenna setup, please refer to www.lancom.eu EN 301 489-1, EN 301 489-17, EN 60950-1 EN 301 893 Version 1.5.1, EN 302 502 (BFWA) Certifications notified in Germany, Belgium, Netherlands, Luxembourg, Austria, Spain, Switzerland, UK, Italy, Portugal, Czech Republic, Denmark, France LANCOM OAP-382 Device supplied with mounting materials, grounding wire, and the following accessories. Please note: The Provider Package includes only the device, mounting materials, grounding wire, and antenna adapters. Quick Reference Guide (DE/EN), Installation Guide (DE/EN/FR/ES/IT/PT/NL) CD/DVD with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Water-resistant, UV-resistant Ethernet PoE cable with water-resistant screw connector, 15m Four AirLancer NP-NP 25 cm adapters for connecting outdoor antennas from the LANCOM AirLancer Extender product range, including sealing tape to protect against water penetration Four outdoor dual-band rod antennas (2.4 GHz, 2.5 dBi; 5 GHz, 5 dBi)

Via Power over Ethernet, 1 x Gigabit High Power (50W/56V) PoE Injector included



The use of a LAN-side surge-arrestor adapter such as the AirLancer Extender SA-LAN is imperative for outdoor installations. It is available as an ac-

If the LANCOM OAP-382 is switched on at very low temperatures, the device requires a warm-up period of up to 40 min. This is not an error, but serves to protect the electronics.



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.