

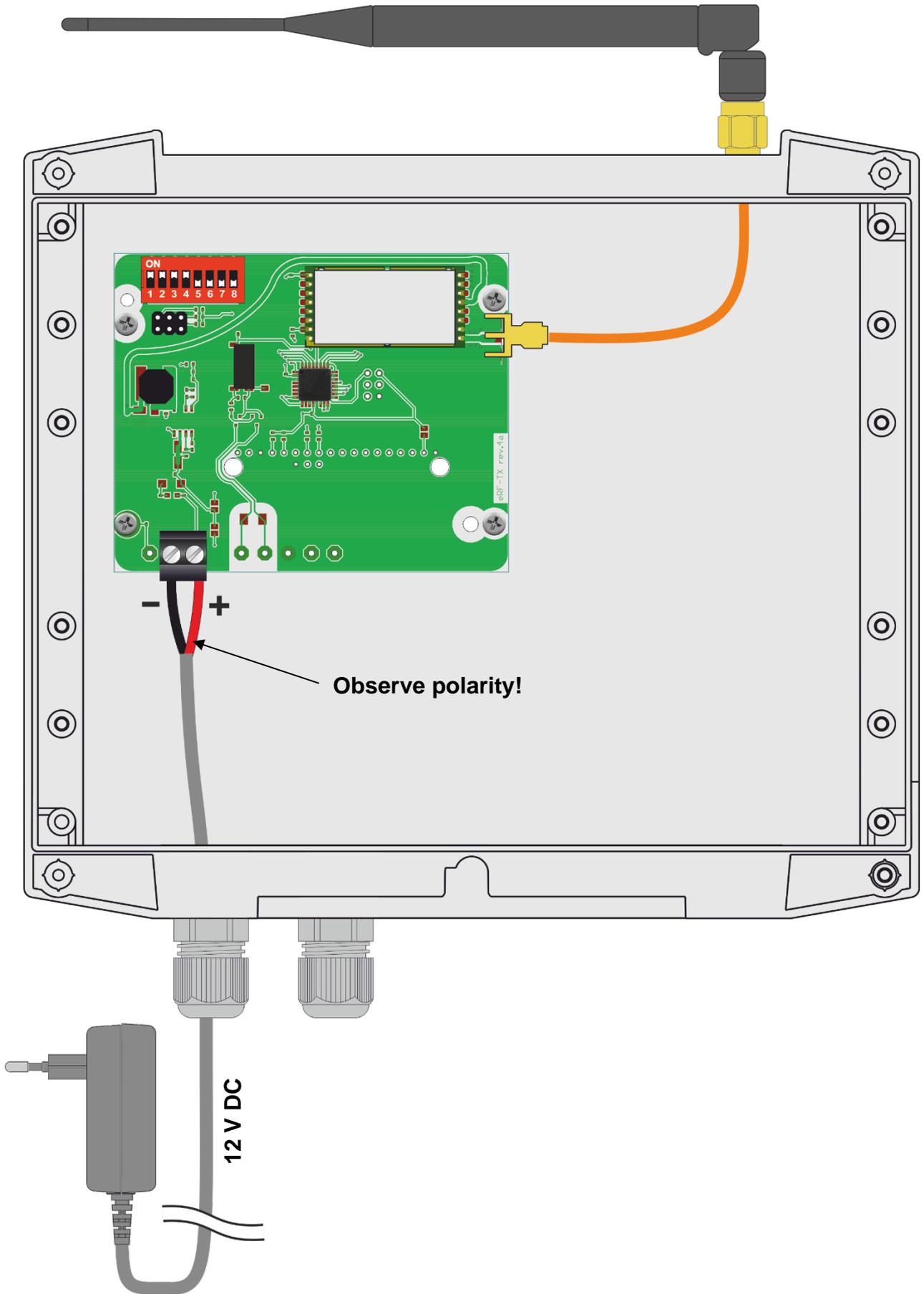
MOUNTING AND INSTRUCTION MANUAL

AirPort24 Repeater

Item No. 138334



Connection diagram



Introduction

This *AirPort24* repeater receives the *AirPort24* time telegram from an *Airport24* transmitter on the radio frequency 869.525 MHz and amplifies it with a time delay on the same radio frequency.

Installation/Commissioning

1. Open the housing of *the AirPort24* repeater.
The housing cover is connected to the lower part by a cable.
You can disconnect the plug connection on the circuit board for installation.
2. Screw the rear part of the housing to a wall.
3. Set the transmission power, see page 4.
4. Set the address, see page 4.
5. The 12 V power cable from the power supply unit is already connected into the left terminal of the *AirPort24* repeater, see illustration on page 2.
If it has been disconnected, reconnect it to the left terminal now.
Note the polarity: left black (-), right red (+).
6. Close the housing again with the 4 screws.
7. Plug the power supply into a 100-240 VAC/50-60 Hz power socket.
8. The *AirPort24* repeater switches on and the green "Power" LED lights up.
9. Check whether an AirPort24 Transmitter is transmitting within the reception range. The green "Signal out" LED on the AirPort24 Transmitter should flash every second.
10. Check whether the AirPort24 repeater is receiving the signal. The yellow "Signal in" LED on the AirPort24 repeater should flash every second; if not, the AirPort24 repeater must be installed closer to the AirPort24 transmitter.
11. Check if the green "Signal out" LED flashes every second. If the green "Signal out" LED does not flash every second, check whether a transmission power has been set (point 3).
If all DIP switches are set to "off," the green "Signal out" LED will not flash.

Setup is now completed.

Setting the transmission power:

The transmission power can be set to different strengths in 3 levels. Switches 1 and 2 of the left DIP switch row are provided for this purpose.



Full power
on on = 500 mW



Low power
on off = 25 mW



Transmitter off
off off = 0 mW

Setting the address:

AirPort24 transmitters and *AirPort24* repeaters must be assigned different addresses if their transmission ranges overlap.

The address range comprises addresses 0 to 7. The address is set using dip switches 3 to 5.

The address is a time offset, not a different frequency.

Dip switches 6 to 8 have no function.



Address 0



Address 1



Address 2



Address 3



Address 4



Address 5



Address 6

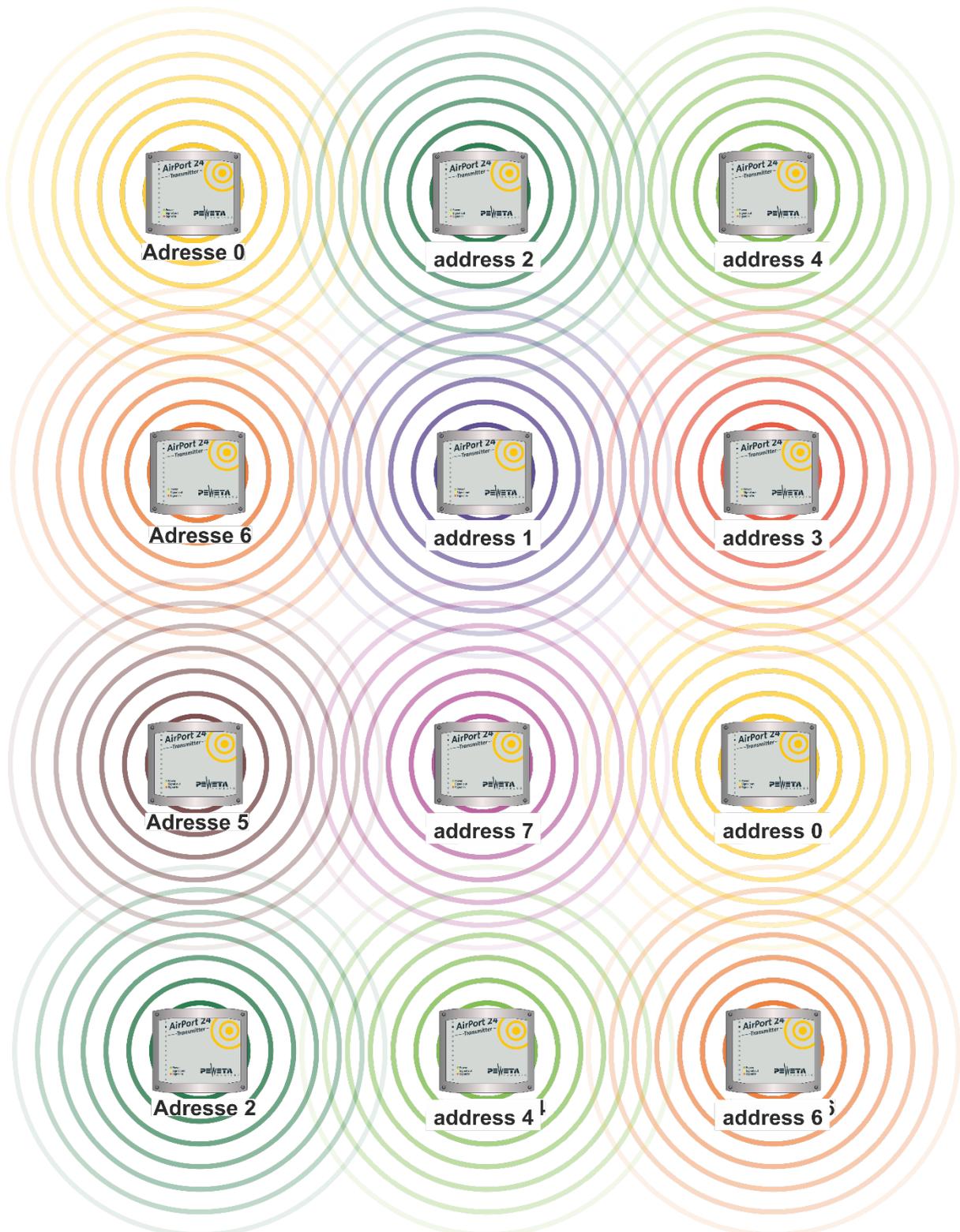


Address 7

Spatial distribution of *Airport24* transmitters and *Airport24* repeaters:

Transmission ranges with the same address must not overlap.

Consecutive addresses (0 and 1 ... 2 and 3) must be avoided; one value should always be skipped (0 ... 2 ... 4 ... 6 ... 1 ... 3 ... etc.).



Technical data

Electrical values	
DC power supply	12 - 14 VDC / < 800 mA @12 VDC
Mains power supply	Plug-in power supply (included in delivery)
Input	100 - 240 VAC / 50-60 Hz
Output	12 VDC / 2.08 A / 25 W

Performance characteristics	
Transmission frequency:	Center frequency: 869.525 MHz,
Modulation:	FSK +/-25 kHz
Transmission power:	2 levels: 25 and 500 mW
Transmission interval:	Every second
Antenna:	Internal $\lambda/4$ antenna
Range at 500 mW	Approx. 250 meters in buildings. This information is a guideline and may be significantly lower or higher depending on the building structure. Up to 400m ... 1000m outdoors.

Ambient values	
Protection degree	IP30 (EN 60 529)
Protection class	III
Climate	Operating temperature: 0 to 55°C Storage temperature: -40 to 70°C 10-95% relative humidity at 25°C, non-condensing

Notes

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