

MOUNTING AND INSTRUCTION MANUAL

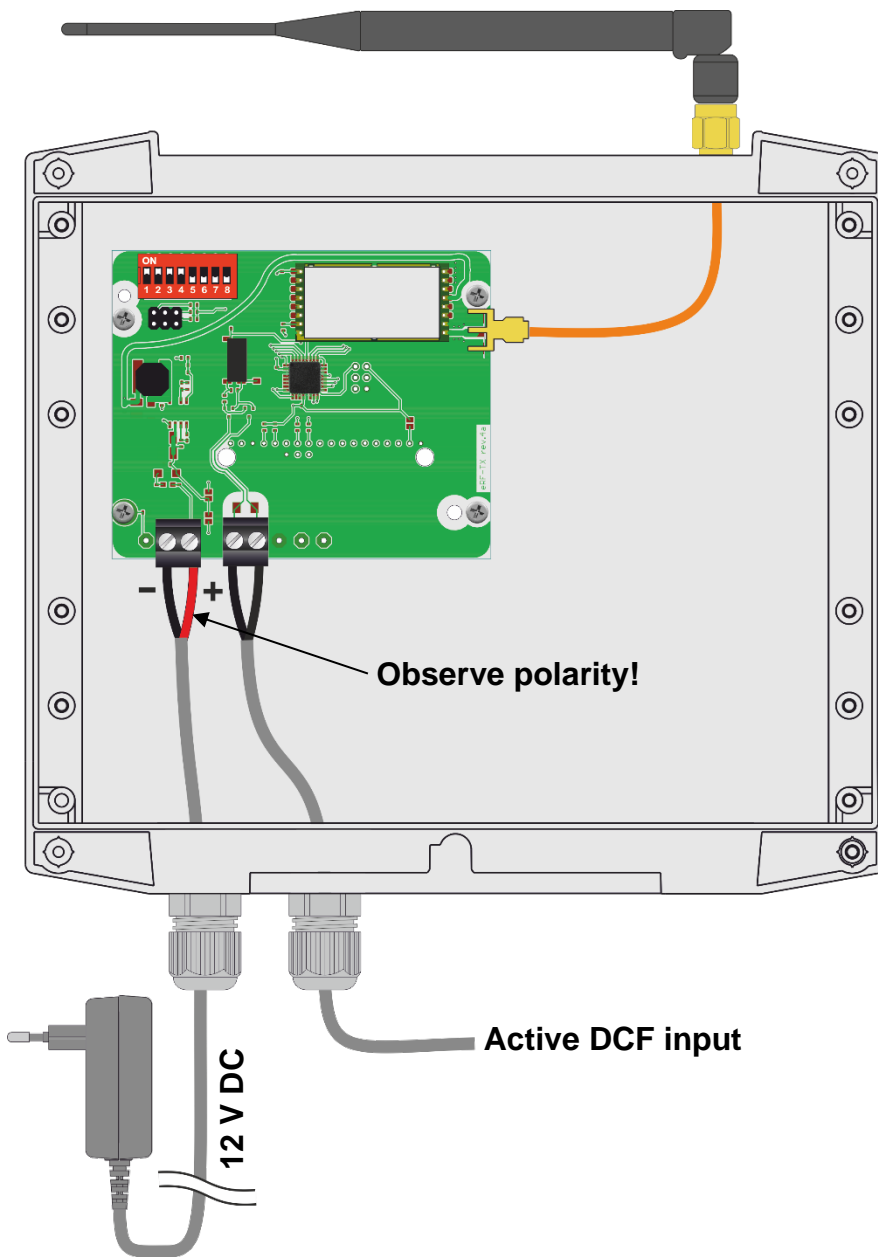
AirPort24 transmitter

active DCF input
Item no. 138332



Connection diagram

AirPort24 Transmitter



The *AirPort24* transmitter receives the "active DCF input" signal from a master clock or time server and distributes the time information it contains every second on the radio frequency 869.525 MHz.

Any number of *AirPort24* clocks receive this time and run synchronously (uniformly, simultaneously) with it.

Settings on the masterclock:

On the master clock (ETC 14/24 or DTS 480x.masterclock), "DCF active" must be selected as the time code.

The following line modes can be selected: Mode 1, 2, 5 or 6.

MOBALine / impulse line

Line 1 | Line 2

MOBALine Impulse line DCF active DCF Impulse

Mode: ▾

Linemode: ▾

Time zone: ▾ [Change...](#)

Max. current [mA]: ▾

Installation / Commissioning

1. Open the housing of the *AirPort24* transmitter.
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 the wall.
3. Connect the input signal to the right-hand terminal "Active DCF input", see illustration on page 2.
4. Set the transmission power, see page 5.
5. Set the address, see page 5.
6. The 12 V power cable from the power supply unit is already connected into the left terminal of the *AirPort24* transmitter, see illustration on page 2.
If it has been disconnected, reconnect it to the left terminal now.
Note the polarity: left black (-), right red (+).
7. Close the housing again with the 4 screws.
8. Plug the power supply into a 100-240 VAC/50-60 Hz power socket.
9. The green "Power" LED on the front of the *AirPort24* transmitter lights up.
10. The yellow "Signal in" LED on the front of the *AirPort24* transmitter flashes every second, if not see point (3).
11. After approx. 3 minutes, the green "Signal out" LED on the front of the *AirPort24* transmitter starts flashing.

Setup is now completed.

Adjusting the transmission power

The transmission power can be set to different levels in 3 levels. Switches 1 and 2 on the left side of the 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 in a system must be assigned different addresses if their transmission ranges overlap. The address range covers the range from 0 to 7. The address is set using DIP switches 3 to 5. Switches 6 to 8 in the DIP switch row have no function. The address is a time offset, not a different frequency.



Address 0



Address 1



Address 2



Address 3



Address 4



Address 5



Address 6

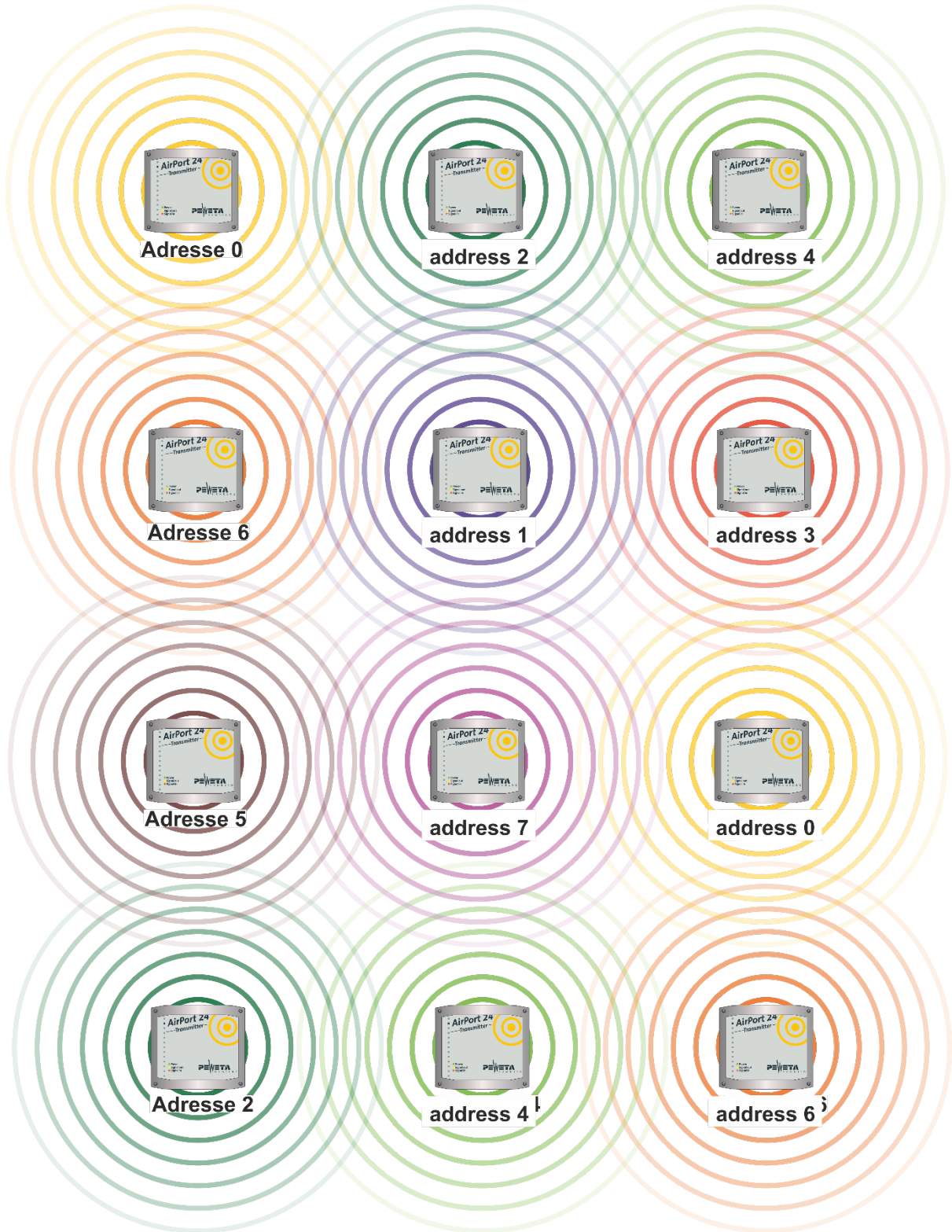


Address 7

Spatial distribution of transmitters/repeaters

Transmission ranges with the same address must not overlap

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



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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