

-----Please read this manual carefully before installing and using the product-----

1. Overview

The AW-D121 power transmitter is used with AW-FP100 series addressable fire alarm control panel. It is mainly used to increase the load capacity of the addressable loop. And can increase the communication distance of the addressable loop.

2. Product characteristics

- 2.1 Surface mounting
- 2.2 Working status indicators
- 2.3 Full electronic coding
- 2.4 Output short-circuit protection
- 2.5 Compatible with the latest EN54-4 standard

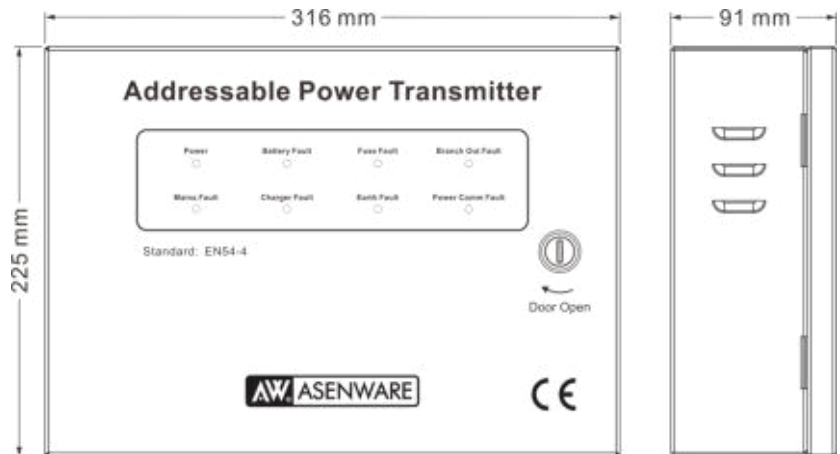


Figure 1. Dimensions

3. Technical parameters

- 3.1 Mains input voltage: 85V~264VAC
- 3.2 Standby power supply with Lead-acid battery: 12V/2.3Ah * 2
- 3.3 Operating temperature: -10℃ ~ 50℃, Relative humidity: ≤95%(non-condensing)
- 3.4 Branch output: 24VDC with 3A limiting protection
- 3.5 Branch loop line short and open detect
- 3.6 Capacity of the fault relay contact: 1A@30VDC
- 3.7 Protection class: IP30
- 3.8 Application: For indoor use only
- 3.9 Materials and colors: SPCC, Red
- 3.10 Size: 316mm*225mm*91mm

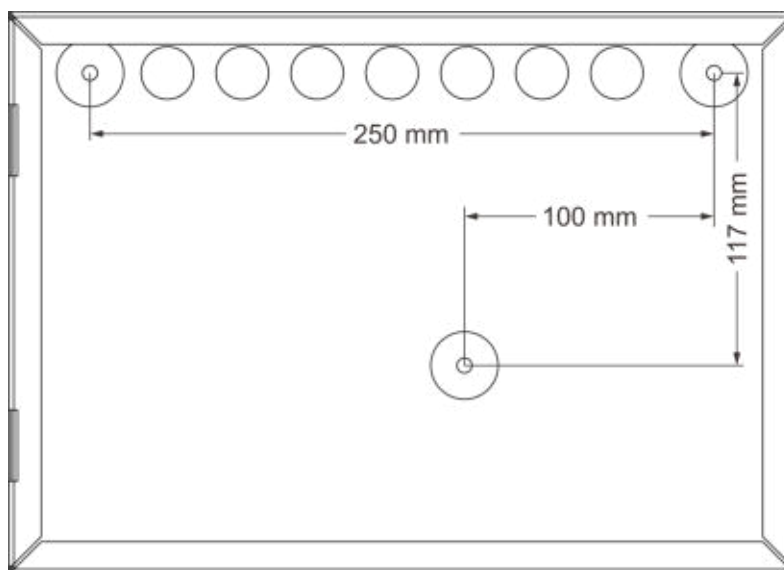


Figure 2. Mounting

4. Mounting

AW-D121 power supply should comply with all local codes.

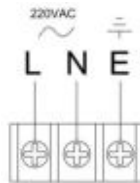
The dimensions of 137mm*105mm*41mm(Length*Width*Height), shown in Figure 1. Shown in Figure 2, Fix the shell to the wall with screws. The mounting holes diameter $\phi 4.5\text{mm}$, fixing the holes spacing is 57mm.

5. Operation

Coding: Use the programmer to write the correct address from 1 to 250.

Terminals and wiring: The Loop in terminal is connected to the Loop out terminal of the panel. The Loop out terminal is connected to the Loop in terminal of the panel. The branch out and branch in terminals Connect to the devices as show in Figure 4.

Use the 3 terminal to connect the AC power cable to the panel. Ensure that the power cable is safe to handle (has no power). Pay attention to the order of L/N/E, pull them in the 3 pin terminal (5mm space between) and screw down. The diameter of the wires must be between 0.75 and 2.5 mm².



(Ensure that there is no power when connect this terminal!)

Figure 3. Mains connection

Indicator light: The position and sequence of the indicator light are shown in Figure 1. The indicator lights are as follows:

Power: After the power is turned on, the green Power indicator flashes once every 5 seconds.

Mains Fault: When the mains in is fault, the LED will always be on.

Battery Fault: When the battery is fault, the LED will always be on.

Charger Fault: When the Charger is fault, the LED will always be on.

Fuse Fault: When the fuse of the 24V out is fault, the LED will always be on.

Earth Fault: When the system have earth fault, the LED will always be on.

Branch out Fault: When the branch out is fault, the LED will always be on.

Power comm Fault: When the communication of the power board is fault, the LED will always be on.

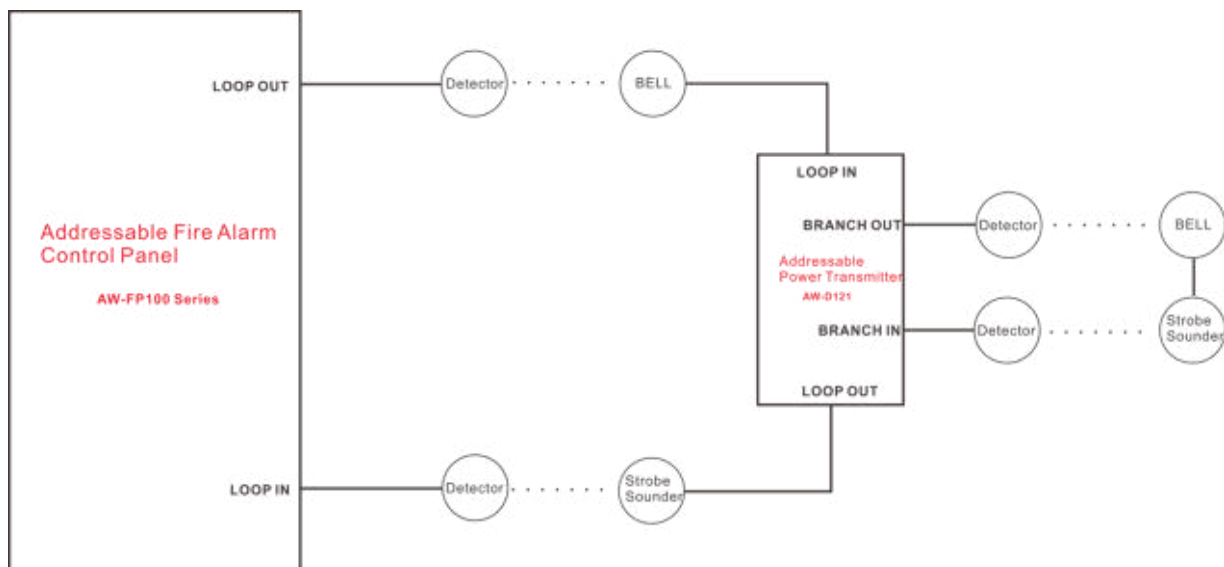


Figure 4. Diagram