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## **Analog slave clock controller K-FUNST-24**

### **Operation manual for analogue clock controller FUNST-24**

In order to open the case, please replace the four screws at the cover.

#### **Operation and time setting**

**Possibility 1:** All slave clock movements have to be set to 12 o'clock by hand. After connection of 230V/AC power supply please press the button „12 Uhr“ for approx. 1 second. After approx. 6 minutes the clock set to the current time automatically.

**Note:** If the slave clock movement steps with pressing the button “12 Uhr”, please change the pole at the connection.

**possibility 2:** After the connecting power supply and time reception over DCF or GPS time receiver, the controller sends pulse signal to the slave clock once a minute. Now, you can set the hands to the current time by hand. At the next minute pulse, the movements will be synchronized

**Note:** If there is time difference between the connecting movements please exchange the pole the movement and set the time by hand again.

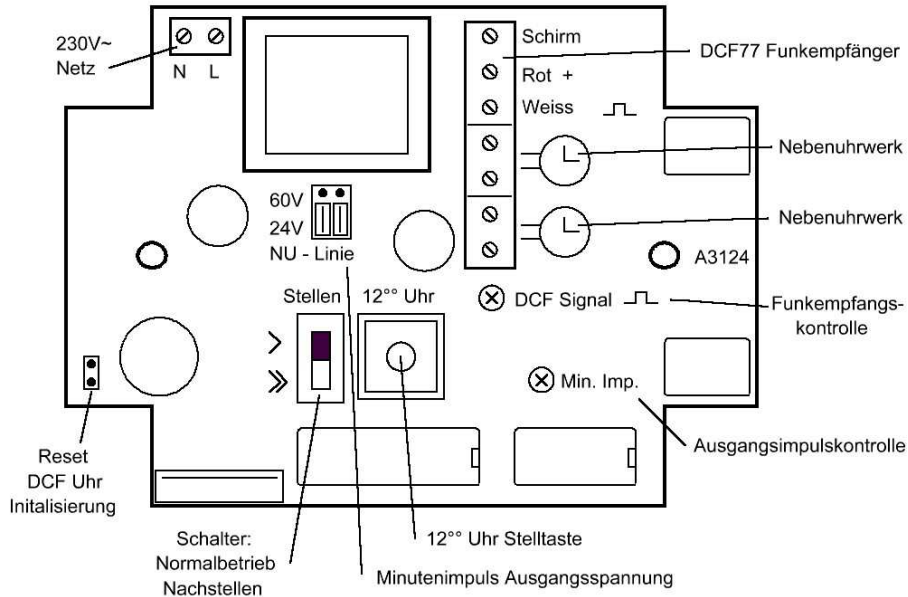
**Description of the buttons:**

- > Standard mode - pulse output a minute
- >> fast step (1 step a second) mode – for time setting.

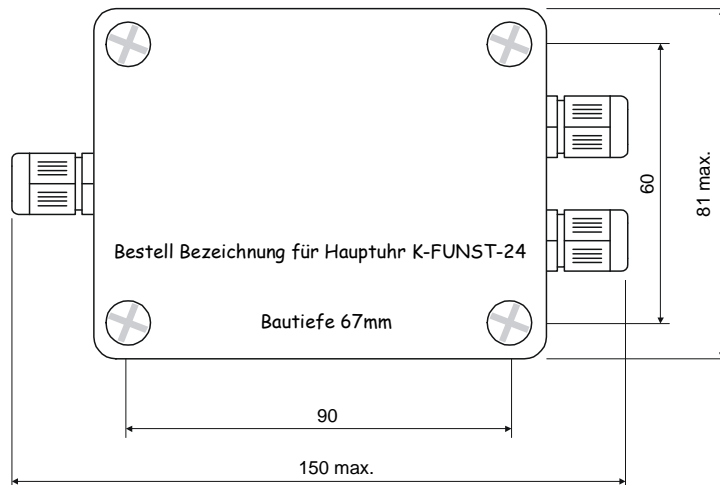
**12<sup>00</sup> Uhr button:** at the pressing of this button, 12 o'clock hand position is registered into the electronic. After the time reception, the electronic sends the rest pulses until the current time automatically.

**Operation voltage 24 V/60 V:** the output voltage of the controller must be same input voltage of slave movement.

**Illustration of a main electronic**



**Dimensions of master clock electronic**



**Technical data**

Model number	Data
<b>K-FUNST-24</b>	
Power input	230 V/50 Hz AC $\mu$ 10%
Power consumption	3 VA
Output voltage	24 V or 60 V DC
Output current	24 mA = 4 movements - à 6 mA
Case	Polycarbonate grey
Protection grade	IP65
Dimensions WxHxD	150x81x67 mm
Operating temperature	-25°C up to +70°C
weight	400 g

**Norm and guidelines**

EN 60 950:2000 and EN 60 950-1:2001

EN 61000-3-2:2000

EN 61000-4-4:2001

EN 61000-6-3:2001 EMV



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