

## Antenna and power supply unit

Order No.: 0878 00

### 1. Functional description

#### 1.1 Antenna

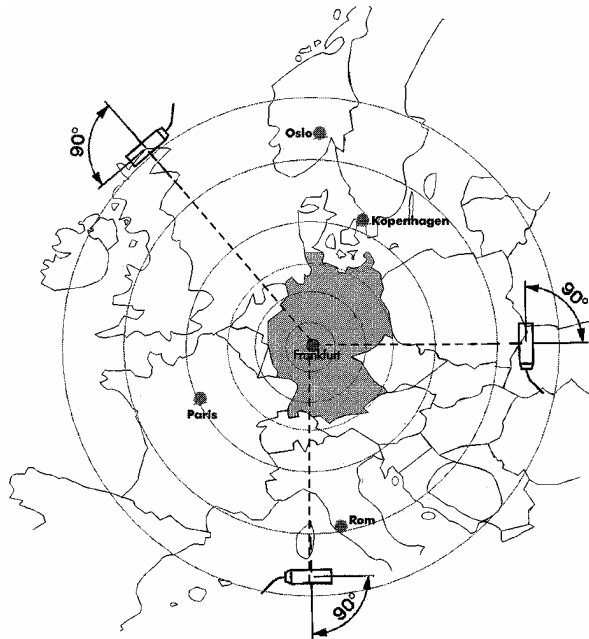


Bild 1

The antenna receives the „time pulses“ via the Frankfurt-Mainflingen transmitter. The signal DCF 77 is emitted in coded form by the PTB (German Federal Standards Laboratory) in Braunschweig and refers exclusively to CET (Central European Time).

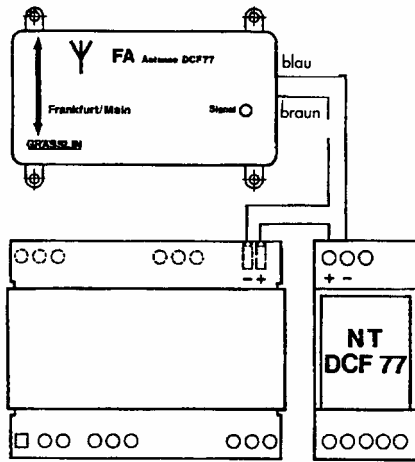
#### 1.2 Power supply unit

The power supply unit is used to supply the antenna and the received signals supplied to the time switch which are fed in on this line at the same time.

In the event of a power failure, the clock continues to run with quartz precision. The clock is radio synchronized again when the mains voltage is restored.

## 2. Putting into operation

Connection diagram:

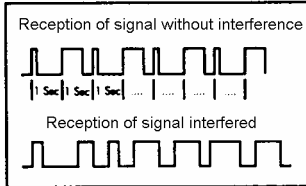


Electrical appliances may be installed and assembled only by a qualified electrician. (The term qualified electrician is defined in VDE 0105).


## 3. Assembly and connection

- a) The antenna should be mounted near to a window (inside room). Make sure that one of the two arrows (on the housing) points towards Frankfurt/Main.  
The antenna has a permanent connecting lead measuring approx. 2 m (2x0,75 mm<sup>2</sup>) and can be installed up to 20 m away regardless of the installation method.  
Steel constructions and metal window frames can lead to reception interference and should be borne in mind when mounting the antenna.  
If interference in signal transmission occurs during operation (see Point a), the line must be laid separately or the antenna must be moved.
- b) It is most advantageous to install the power supply unit directly next to the time switch. It must, of course, receive the necessary mains voltage. Up to 5 times switches can be operated with a power supply unit and an antenna (see connection example for series connection).

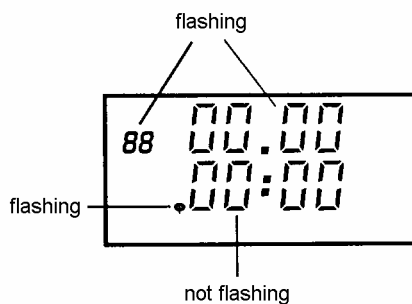
#### 4. Signal reception and Monitoring operation



After correct installation and connection (see example on Page 5), the antenna receives a pulse every second. This pulse is displayed by the LED and can be 100 ms or 250 ms long.

The symbol  in the time switch also flashes every second and displays of different length pulses read for as long as the „signals“.

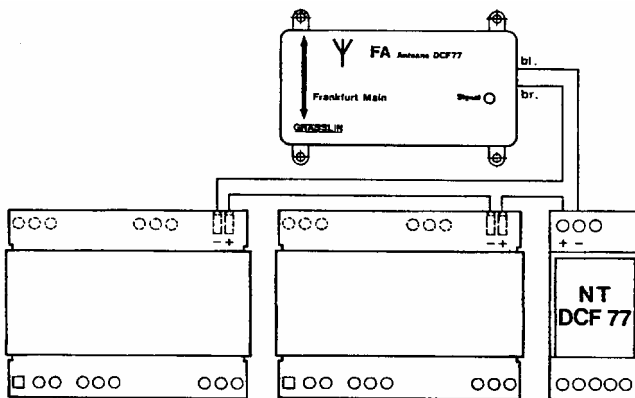
The display of the time switch shows:



The current date and time are displayed after 2-6 minutes if reception is perfect.

The symbol  is constantly displayed - the time switch is synchronized.

#### 5. Connection examples



## 6. Technical data

	<b>NT power supply unit</b>	<b>FA radio antenna</b>
Dimensions (HxWxD) mm	45 x 36 x 68 (53)	60 x 100 x 40
Distribution panel, mm	46 x 37	—
cutout, mm	68 (53)	—
Protection Class (VDE 0633)	II	—
Protection type (DIN 40050)	—	IP 44
<b>Input:</b>		
Connection	220 V	10 mA DC
Frequency	50 - 60 Hz	—
Power consumption	1,5 VA	3 mW
<b>Output:</b>		
Current	constant 10 mA DC	—
No-load voltage	15 V	—
Reception frequency	—	77,5 kHz
Ambient temperature	-10 °C to +55 °C	0 °C to +55 °C

## Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

**Please return the unit postage paid to our central service department giving a brief description of the fault:**

Gira  
Giersiepen GmbH & Co. KG  
**Service Center**  
Dahlienstrasse 12  
D-42477 Radevormwald



The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

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