



GPS-DCF Converter UTC±

Technical specifications and installation instructions



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1. Description

The **GPS-DCF Converter UTC±** can be connected to a DCF77 signal input as an alternative to a DCF77 antenna. The device receives global UTC via GPS and converts this information into the DCF77 protocol.

The UTC offset at the installation location is set with DIP switches in the device. The **GPS-DCF Converter UTC±** then outputs the local time to the timer. When set to MEZ (Central European Time), the summer/winter time change will take place automatically.

1.0.1. Scope of delivery

- Converter in housing for surface mounting

1.1. Technical data

Mounting	Surface-mounted
Protection rating	IP 54
Dimensions	approx. 80 x 80 x 55 (W x H x D, mm)
Weight	approx. 160 g
Auxiliary voltage	24 V DC
Auxiliary current	49 mA
DCF output	+24 V / - / out

2. Installation and commissioning

2.1. Notes on installation



Installation, inspection, commissioning and troubleshooting of the device must only be carried out by a competent electrician.

Disconnect all lines to be assembled, and take safety precautions against accidental switch-on.

The device is exclusively intended for appropriate use. With each inappropriate change or non-observance of the instructions for use, any warranty or guarantee claim will be void.

After unpacking the device, check immediately for any mechanical damages. In case of transport damage, this must immediately notified to the supplier.



If damaged, the device must not be put into operation.

If an operation without risk may supposedly not be guaranteed, the device must be put out of operation and be secured against accidental operation.

The device must only be operated as stationary system, i.e. only in a fitted state and after completion of all installation and start-up works, and only in the environment intended for this purpose.

Elsner Elektronik does not assume any liability for changes in standards after publication of this instruction manual.

2.2. Layout of the circuit board / Connection

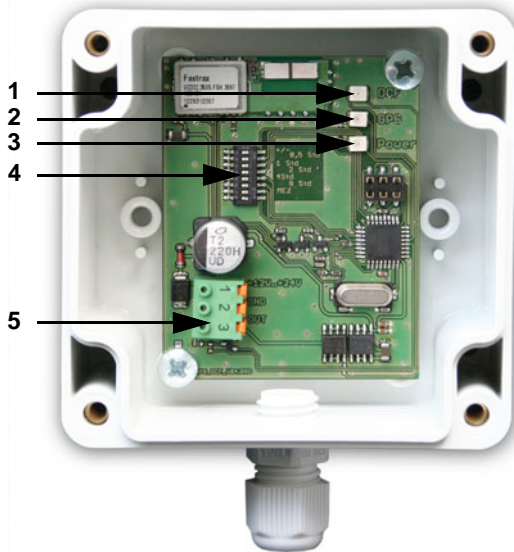


Fig. 1

- 1 LED indicator
"Transmit DCF"
- 2 LED indicator
"GPS Reception"
- 3 LED indicator
"Voltage Supply"
- 4 DIP switches
- 45 DCF Output
 - 1: +24 V
 - 2: -
 - 3: out

Assignment DIP switches:

- 1 +/- (Setting of time offset, switch OFF: + | switch ON:-)
- 2 0,5 hours offset
- 3 1 hours offset
- 4 2 hours offset
- 5 4 hours offset
- 6 8 hours offset

The common time offset values can be reached by adding the values of the switches.

- 7 MEZ / CET

If switch 7 is set to ON, the Central European Time is output, including automatic summer/winter time switch-over.

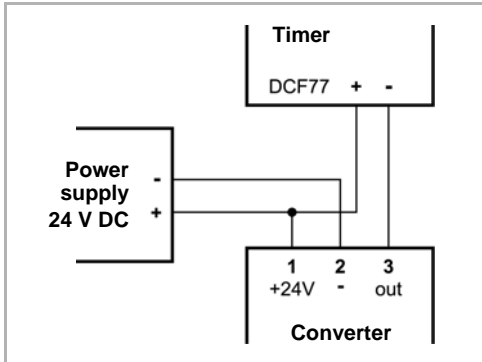


Fig. 2
Connection Example