

**ELPROMA DCF
FOR
MS Windows NT/2000
(/X extended edition)**

*

-- v. 1.0a --

1 Overview

The DCF.EXE driver supports WindowsNT/2000 connection to Elproma DCF PC CLOCK.

2 Instalation

1. You need to (login) as „Administrator”.
2. Simply execute SETUP.EXE and follow instructions on the screen.
3. Restart your computer. The DCF driver starts automatically when NT/2000 is loaded.
Driver runs in (service) mode at (LocalSystem). It let's DCF synchronize time on your NT/2000 even no user login. The installation routine sets all registry automatically.
You can modify default settings running additional software utility REGEDT32.EXE.

3 DCF driver call parameters

- /c<n> - specify serial I/O port (e.g. /c1 – for COM1, /c2 – for COM2 ... /c8 – for COM8)
- /t<n> - the frequency of DCF->PC synchronizing (in min.) <n> = 1...63
- /s – get time synchronized when driver is initializing.
- /b – enable sound to indicate synchronization.
- /p<xxx> - driver protection key, **for DCF77N use 100.**
- /n – operating quietly. Driver does not display window when executed (used in service mode)
- /z – get time synchronized even time is not exact.
- /d0 – disables error messages
- /x [drive:][\path]filename – driver creates “filename” when time synchronization is exact.
It removing file when clock has lost synchronization.

NOTE

Use double “\\” to indicate path level

e.g. c:\\tmp\\trsttime.txt

Once file is created it contains value “1” stored.

REMARK Parameters /c /t /p are obligatory to be used.

4 Changing (SERVICE) settings

1. Execute (START→RUN→REGEDT32.EXE)
This software utility let's you modify system registry.
2. Please move to key HKEY_LOCAL_MACHINE and select
SYSTEM→CurrentControlSet→Services→DCFService→Parameters
3. Find entry AppParameters and double click left button.
4. Now, you modify/add/remove software parameters.
5. Click OK.
6. Select Registry→Exit to quit REGEDT32.EXE
7. Stop DCF driver (service) in CONTROL PANEL→SERVICES

8. Restart DCF driver (service) again in CONTROL PANEL→SERVICES

5 Execute DCF driver as window program.

1. Remove /n option from startup parameters using REGEDT32.EXE software.
2. Using REGEDT32.EXE select DCFService and click Startup...(Autostart...) Then select option „Allow Service to Interact with Desktop” and click OK.
WARNING! DO NOT CHANGE ANY OTHER OPTIONS AT THAT STEP

NOTE! Driver window red flashes when indicate time synchronization problems.

6 Error messages

Executing driver:

1. Wrong parameter <par>!!!
2. Missing call parameters!!!
3. Missing '/Cn'!!!
4. Missing '/Tn'!!!
5. Missing '/Pxxx'!!!

Runtime errors:

1. Can not open serial port COM <nr> !!!
2. Can not setup serial transfer parameters!!!

Operating system errors:

1. Can not create object MUTEX!!!
2. Missing timers!!!
3. Can not create process!!!
4. Error MUTEX – p
5. Error MUTEX – v
6. Can not create DCB!!!
7. Can not setup serial!!!
8. Can not clear I/O buffer!!!
9. Can not setup time!!!