

INSTRUCTION MANUAL

Portable Data Carrier ETC

Data transmission device for ETC



Table of contents

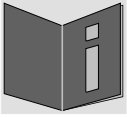
1	Safety	3
1.1	Safety instructions	3
1.2	Symbols and Signal Words used in this Instruction Manual	3
1.3	Intended Use	3
1.4	Observe operating safety!	3
2	Maintenance	4
2.1	Cleaning	4
2.2	Disposing	4
3	Scope of delivery	4
4	Switch Editor	5
5	Display	6
6	Operation	6
7	Technical data	7

References to the Instruction Manual

1. The information in this Instruction Manual can be changed at any time without notice. The current version is available for download on www.mobatime.com.
2. This Instruction Manual has been composed with the utmost care, in order to explain all details in respect of the operation of the product. Should you, nevertheless, have questions or discover errors in this Manual, please contact us.
3. We do not answer for direct or indirect damages, which could occur, when using this Manual.
4. Please read the instructions carefully and only start setting-up the product, after you have correctly understood all the information for the installation and operation.
5. The installation must only be carried out by skilled staff.
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1 Safety

1.1 Safety instructions



Read this chapter and the entire instruction manual carefully and follow all instructions listed. This is your assurance for dependable operations and a long life of the device.
Keep this instruction manual in a safe place to have it handy every time you need it.

1.2 Symbols and Signal Words used in this Instruction Manual

	<p>Caution! Please observe this safety message to avoid damages to property and devices!</p>
	<p>Notice! Additional information for the use of the device.</p>

1.3 Intended Use

The **Portable Data Carrier ETC** (called **PDC-ETC** below) is a device to transmit switch programs to an ETC. For this purpose, it reads the data from a USB stick and automatically transmits them to the ETC.



1.4 Observe operating safety!

- Never open the housing of the device! This could cause an electric short or even a fire, which would damage your device. Do not modify your device!
- The device is not intended for use by persons (including children) with limited physical, sensory, or mental capacities or a lack of experience and/or knowledge.
- Keep packaging such as plastic films away from children. There is the risk of suffocation if misused.

2 Maintenance

2.1 Cleaning

- Please make sure that the device remains clean especially in the area of the connections, the control elements, and the display elements.
- Clean your device with a damp cloth only.
- Do not use solvents, caustic, or gaseous cleaning substances.

2.2 Disposing



Device

At the end of its lifecycle, do not dispose of your device in the regular household rubbish. Return your device to your supplier who will dispose of it correctly.



Batteries

The user is legally obliged (**battery regulation**) to return used batteries and accumulators. **Disposing used batteries in the household waste is prohibited!** Batteries/ accumulators containing hazardous substances are marked with the crossed-out bin. The symbol indicates, that this product is forbidden to be disposed in the household waste. Below the chemical shortcuts for the contained hazardous substances of this product are mentioned:



Ag₂O = Silver oxide, **Cd** = Cadmium, **Hg** = Mercury, **Li** = Lithium, **Li-Ion** = Li-ion, **NiCD** = Nickel-cadmium, **NiMH** = Nickel-metal-hybrid, **Pb** = Lead, **ZnMnO₂** = tin-manganese dioxide.

You can return used batteries / accumulators free of charge to any collecting point of your local authority or stores, where batteries / accumulators are sold.

Consequently you comply with your legal obligations and contribute to environmental protection!



Packaging

Your device is packaged to protect it from damages during transport.

Packaging is made of materials that can be disposed of in an environmentally friendly manner and properly recycled.

3 Scope of delivery

Please check your delivery for completeness and notify your supplier within 14 days upon receipt of the shipment, if it is incomplete.

The package you received contains:

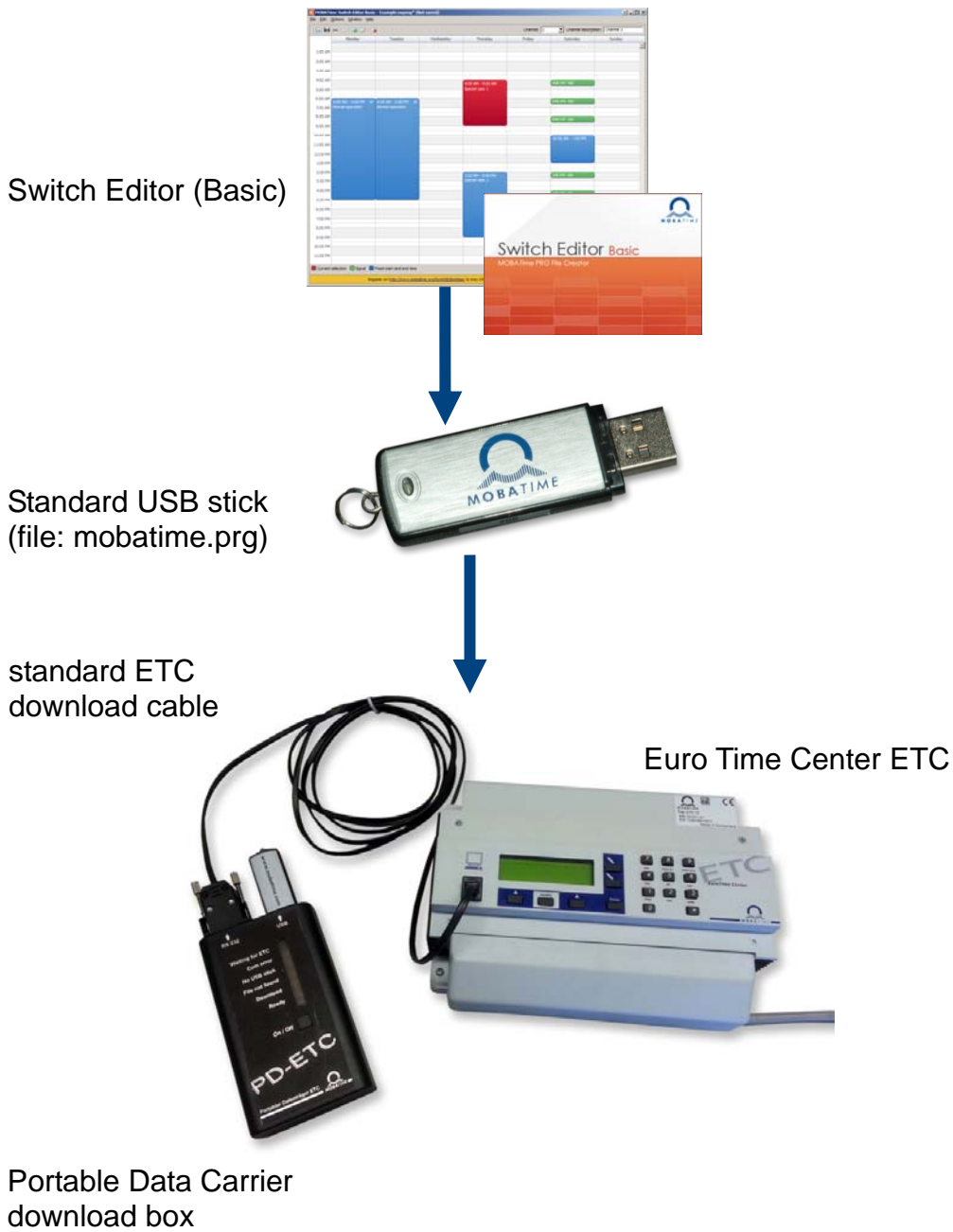
- Portable Data Carrier ETC
- Download cable (art. no.: 36286)

Optional accessories:

- Switch Editor 3 (art. no.: 36059)
- Switch Editor Basic (art. no.: 205557)

4 Switch Editor

Switch Editor can be used to create switch programs for the ETC master clock.



5 Display

The display consists of 6 LEDs.

Description	LED color	Meaning	Order of lighting up
ETC com error	red	Communication error with the ETC during the download.	Alarm / self-check
file not found	red	No valid switch program with the file name <i>mobatime.prg</i> found on the USB stick	Alarm / self-check
download finished	green	download successfully completed	4
downloading	yellow	downloading	3
waiting for ETC	yellow	waiting for ETC communication	2
waiting for USB	yellow	waiting for USB stick	1

6 Operation

- Switch on the device: push the button for at least 0.5s (all LEDs briefly light up)
- Connect PDC-ETC to ETC using the serial download cable
- Plug the USB stick with switch program (file name must be **mobatime.prg**) into PDC-ETC (it can take up to 15s until the USB stick is detected)
- Start download on ETC (Menu → Data management → Switch program → Load switch program and confirm with OK). Alternatively, the automatic download can be activated (Menu Data management → Autom. download → Yes). See also ETC manual (BD-800337), chapter 17.8 Automatic download.
- The download process starts now. During the download, the „downloading“ LED flashes.
- Upon successful completion of the download, the green LED lights up and the ETC display also shows the successful completion. In case of an error, one of the two red LEDs lights up instead.



Important: The PDC-ETC switches off after approx. 1 min. without activity.



Important: If the device is running, holding the button until the LEDs go out causes the PDC-ETC to shut down.



Important: Too low battery voltage is signalled by the red LEDs flashing for a few seconds on start-up, after which the PDC-ETC automatically shuts down.



Important: The USB stick must be formatted with FAT32.



Important: The switch program file must be named **mobatime.prg** and be located in the root index of the USB stick. Besides *mobatime.prg*, other files may be stored on the USB stick.

7 Technical data

Dimensions	H x W x D: 129 x 72 x 30 mm
Weight	approx. 120 g
Ambient temperature	0 to 60°C, 10-90% relative humidity, without condensation
Connectors	1x RS232 (9-pole Sub-D m), 1x USB
Protection degree	IP 40
Power supply	2x 1.5V LR6/AA

HEADQUARTERS / PRODUCTION

MOSER-BAER AG
Spitalstrasse 7, CH-3454 Sumiswald
Tel. +41 34 432 46 46 / Fax +41 34 432 46 99
moserbaer@mobatime.com / www.mobatime.com

SALES WORLDWIDE

MOSER-BAER SA EXPORT DIVISION
19 ch. du Champ-des-Filles, CH-1228 Plan-les-Ouates
Tel. +41 22 884 96 11 / Fax + 41 22 884 96 90
export@mobatime.com / www.mobatime.com

SALES SWITZERLAND

MOBATIME AG
Stettbachstrasse 5, CH-8600 Dübendorf
Tel. +41 44 802 75 75 / Fax +41 44 802 75 65
info-d@mobatime.ch / www.mobatime.ch

MOBATIME SA
En Budron H 20, CH-1052 Le Mont-sur-Lausanne
Tél. +41 21 654 33 50 / Fax +41 21 654 33 69
info-f@mobatime.ch / www.mobatime.ch

SALES GERMANY, AUSTRIA

BÜRK MOBATIME GmbH
Postfach 3760, D-78026 VS-Schwenningen
Steinkirchring 46, D-78056 VS-Schwenningen
Tel. +49 7720 8535 0 / Fax +49 7720 8535 11
buerk@mobatime.de / www.buerk-mobatime.de

