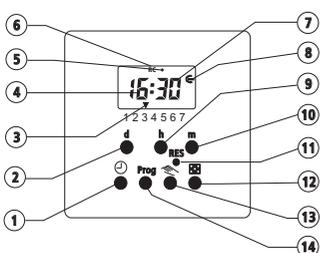
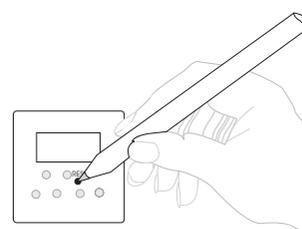




310300 03



5. Store by pressing **Prog** button.
6. Set the date of the day by pressing button **d**.
7. Use button **m** to set the date of the month.
8. Store by pressing **Prog** button.
9. Hold down button for the next setting operation.



**1. Description** **020 s / 020 s DCF**

- |   |   |
|---|---|
| 1 For setting the real time   | 7 Display minutes                           |
| 2 For setting day of the week   | 8 For switching condition display           |
| 3 Cursor for indication of day of week<br>(1 = Mo, 2 = Tu ...)                                    | <b>ON</b> / <b>OFF</b>                      |
| 4 Hours display   | and permanently <b>ON</b> <b>OFF</b>        |
| 5 Display for automatic summer  /<br>wintertime switching   | 9 Hours setting                             |
| 6 RC display flashes while the switch is<br>trying to receive the DCF signal<br>(with DCF device) | 10 Minutes setting                          |
|   | 11 RESET (complete deletion)                |
|   | 12 Random program                           |
|   | 13 Channel selection <b>ON</b> / <b>OFF</b> |
|   | 14 Programming/ interrogation               |

**2. Appropriate Use**

The **eltimo 020 s** is an automatic switch featuring weekly programs and random switching.  
The **eltimo 020 s DCF** version is capable of receiving the DCF77 time signal to guarantee that the correct time is always displayed even when switching between summer and winter time.

**3. Initial Startup** **020 s DCF**



To provide for interference-free signal reception, the switch should always be installed at a distance of approx. 1 m from other electrical devices (e.g. PC)!

After the DCF signal has been received, the switch is immediately ready for use.

1. Plug the switch (**eltimo 020 s DCF**) into the power outlet.
2. The RC icon flashes while the DCF signal is being received. After a few minutes, the RC icon stops flashing and the time will be set automatically.

If the switch is still unable to obtain a DCF signal after a few minutes, the time must be set **manually** (see chap. 5).

**4. Initial startup without auto summer-/wintertime adjustment** **020 s**

**A. Setting week program**

1. Press button **RES**.
2. Select adjustment rule **no** with button .
3. Store by pressing **Prog** button.
4. Hold down button .
5. Set the day by pressing button **d** (1 = Mo, 2 = Tu, ...)
6. Set the actual time by pressing button **h** and **m**.
7. Please release button .

**B. Setting day program**

See above **without 5**.

**Initial startup with auto summer-/wintertime adjustment** **020 s**

1. Press button **RES**.
2. Select adjustment rule e.g. **dat 1** with button .
3. Store by pressing **Prog** button.
4. Set the year by pressing button **d**.

Setting are	beginning of summer time	beginning of winter time	Valid for region
dat bis 12/95	last sunday in march	last sunday in september	EU
dat 1 from 1/96	last sunday in march	last sunday in september	EU
dat 2	last sunday in march	4 th. sunday in october	GB (earlier)
dat 3	first sunday in april	last sunday in october	North
no	no adjustment	no adjustment	

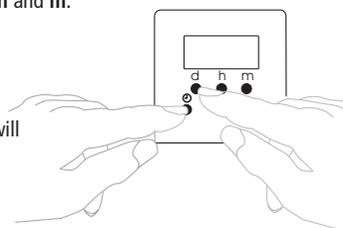
**A. Setting week programm**

**Result:** Switching times can be individually set for every week.

10. Press button **d**. The current weekday is automatically set.
11. Set the actual time by pressing button **h** and **m**.
12. Release button .

**B. Setting day program**

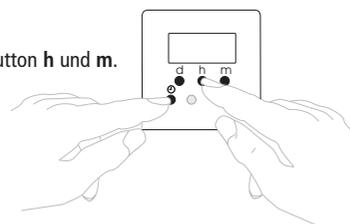
**Result:** All programmable switching times will be executed at the same time every day.



See above **without 10**.

**5. Setting/changing the current time** **020 s / 020 s DCF**

1. Hold down button .
2. Change the current time by pressing button **h** and **m**.  
Set the day by pressing button **d**.  
(applies to 020 s DCF only)
3. Release both buttons.



If a DCF signal is received later on, e.g. at night, the set time is automatically corrected.

**6. Programming** **020 s / 020 s DCF**

**A. Week program**

**Prerequisite:** The initial start-up must have been performed as described in sections 5.1 A and 5.2 A.

**Result:** Same switching time on different days of the week.

**Programming switch-on time**

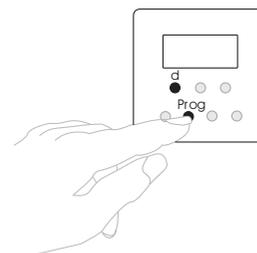
1. Press button **Prog**.
2. Press button **d** for day selection.
3. Store with **Prog**.

Identical switching time on several days of the week (e.g. **Monday to Friday** 1-5). Repeat the programming steps 2. and 3. until the cursors are positioned above 1-5.

4. Set the switch-on time by pressing button **h** and **m**.
5. Store by pressing **Prog**.

**Programming switch-off time**

6. Select icon with button .
7. Repeat setting 2. - 5.



**B. Day program operation**

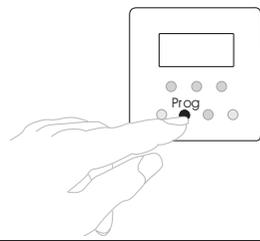
**Prerequisite:**

The initial start-up must have been performed as described in sections 5.1 A and 5.2 A.

See above but **without 2. and 3.**

**7. Querying the program** 020 s / 020 s DCF

1. Press button **Prog** several times.  
All stored switching times are subsequently displayed.



**Return to automatic mode**

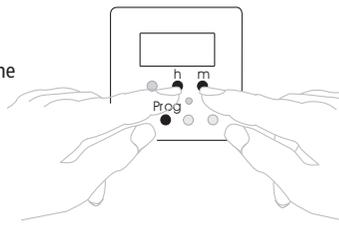
2. Press button .

**8. Changing program** 020 s / 020 s DCF

**A. Weekprogram**

**No change of the weekdays**

1. Check the switching times by pressing the button **Prog**.
2. Change the switching times by pressing button **h** and **m**.
3. Store by pressing **Prog**.



**Changing the weekdays**

1. Check the switching times by pressing the button **Prog**.
2. Press button **d** repeatedly until all but one cursors have stopped flashing.
3. Place cursor above desired weekday.
4. Store by pressing **Prog**.  
e.g.: Lamp shall be switched on at the same time every day from **Mo - Fri**.  
Cursor must be fixed above 1 - 5.

5. If necessary repeat the programming 4. and 5.
6. Store by pressing **Prog** button.

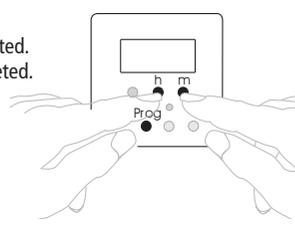
**B. Dayprogram**

1. Check the switching times by pressing button **Prog**.
2. Change the switching time by pressing button **h** and **m**.
3. Store by pressing **Prog** button.

**9. Individual deletions** 020 s / 020 s DCF

**Deletion of some switching times**

1. Use **Prog** to search switching time to be deleted.  
Only the displayed switching time will be deleted.
2. Press button **h** and **m** simultaneously.



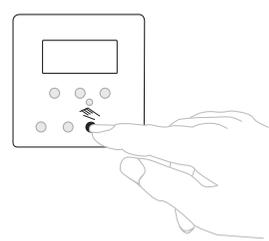
**General deletion of all switching times**

1. Press button **d**, **h** and **m** simultaneously.

**10. Switching preselection ON/OFF** 020 s / 020 s DCF

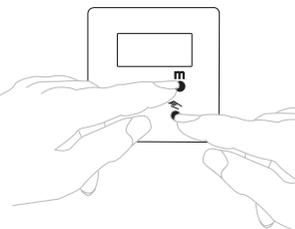
1. Press button .

**Result:**  
Alternating **ON** and **OFF**.  
Icon indicates **ON**.  
Icon indicates **OFF**.



**11. Permanent ON/OFF switching** 020 s / 020 s DCF

1. Hold down button **m**.
  2. Select status using button .
- Icon indicates permanent **ON**.  
Icon indicates permanent **OFF**.



**Reset permanent switching**

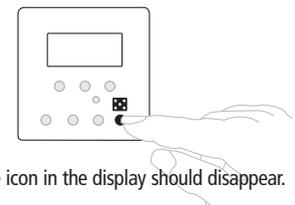
1. Hold down button **m**.
2. Press button until the dot next to the switching status appears.

**12. Activating random program** 020 s / 020 s DCF

The random program causes the time switch on and off at random between a programmed switching pair (ON and OFF switching time).

**Activating random program**

1. Hold down button for approx. 3 sec until the dice icon in the display starts flashing.



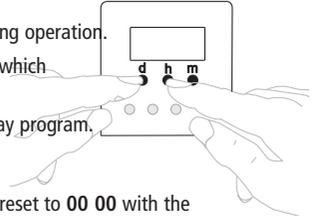
**Deactivating random program**

2. Press button and release it immediately. The icon in the display should disappear.

**13. Holiday program** 020 s / 020 s DCF

The selectable holiday program permits the interruption of a stored program. The switching status is permanent **OFF**.

1. Hold down the button **h** through out the setting operation.
2. Use button **d** to set the number of days after which the holiday program is supported to start.
3. Use button **m** to set the duration of the holiday program.



**Interrupting the holiday program**

1. Hold down the button **h**, the display must be reset to **00 00** with the buttons **h** and **m**.

**14. Safety instructions** 020 s / 020 s DCF

**Danger resulting from the unattended operation of connected devices**  
Make sure that the unattended operation of devices connected to the automatic switch does not constitute a security risk (safe mounting, overheating, inaccessible to children)!

**Danger of life due to electrical shock**  
Never use the switch outside, in the bathroom or in other environments with a high degree of humidity.  
Interference with and changes to the product will result in cancellation of the guarantee.

**Fire hazard due to overload**  
Make sure that the consumer connected does not exceed the maximum permissible breaking capacity. If in doubt, please contact an electrician or our customer support service.

**EMC**  
The time switches comply with the European directives 73/ 23 EEC and 89/ 336 EEC. If the time switch is used together with other devices in an installation, take care that the complete installation does not cause radio interference.

**15. Technical data** 020 s / 020 s DCF

Type of program:	day or week
Operating voltage:	230 V ± 10 %, 50 Hz
Switching capacity:	16 (2) 230 V~
Time base:	Quarz (020 s), DCF (020 s DCF)
Memory locations:	36 (020 s), 33 (020 s DCF)
Min. switching interval:	1 minute
Switching accuracy:	≤ ±1 sec. / day at 20 °C
Power reserve:	NiMH battery, approx. 500 h at 20 °C
Perm. ambient temperature:	-10 °C to +40 °C
Class of protection:	II in compliance with EN 60730-1
System of protection:	IP 20 in compliance with EN 60529
Type:	1 BSTU in compliance with EN 60730-1 and EN 60730-2-7

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