19 - 20

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11. Technical data

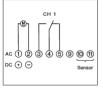
Assembly, Connection, Putting into operation

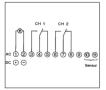


2.1 Assembly

Fit the time switch

- on a DIN rail
- optional wall surface-mounting Surface-mounting set for 2 and 3 module spacings Article No. 03.53.0083.2





2.2 Connection

See information on the unit!

Press any key to activate the time switch

the time and date is displayed

Note:

If no key is pressed the time switch is automatically activated 1 - 2 minutes after power is connected.

Note:

When connecting the sensor to terminals 10 and 11, you must **also** insert a jumper between terminals 9 and 10. When you operate several units with

When you operate several units with one sensor, this jumper may only be inserted **on one unit**.

See circuit diagrams.

2. Assembly, Connection, Putting into operation

2.3 Putting into operation

The date and time are set at the factory.

The unit is in power-save mode.

Only the colon flashes.

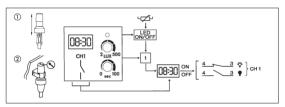
Press any button:

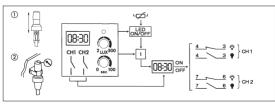
- The unit is active
- It shows the time (day of the week)

The unit twilight switch and time switch switches the output.

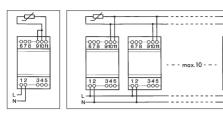
(Terminals 3 and 6) only active if all three conditions are met:

- The set brightness level is not reached
- The set delay time has expired
 - The time switch is set to = ON

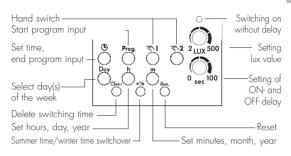




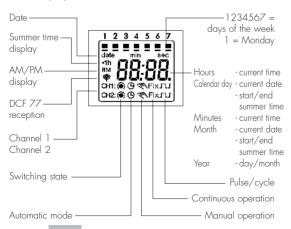
2. Assembly, Connection, Putting into operation



3 Control elements



4. Display



5. Factory setting

The selections correspond to Central European Time. The time switch offers 3 Operating modes. The date and time, and also the Operating mode AU are set.

Operating modes:

AU Automatic summer time controller switchover see 6.2.1

The switchover occurs on the dates defined by the leaislator.

cHA Weekday-related summer time controller switchover, see 6.2.2

You enter the start and end dates of summer time which applies to your location/country.

e.g. The first Sunday in April of the current year (start of summer time)

The last Sunday in October of the year

The last Sunday in October of the year (end of summer time)

In the following years, changeover always occurs on the right day of the week in the correct calendar week.

no No changeover, see 6.2.3

AM/PM switch-over Switch clock is in current operating mode

- 1. Press h and keep pressed
- 2. Press Res once
 - all segments are displayed
 - after approx. 1 second the following appears:

AM, 12.00 and 3 (Wednesday)

Operating mode AU is active = works setting

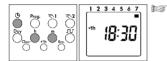
- 3. Release h
- 4. Select operating mode as required, see 6.2.1 or 6.2.2 or 6.2.3
- 5. Set the current time of day and weekday, see 6.1

Changing settings

Note:

You can exit/conclude any adjustments, changes you make at any time with the key ().

6.1 Time and day of the week



Press the (1) key once

Set the time

With the h key - hours With the m key - minutes

Note for weekly time switch:

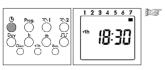
If the Operating mode

was selected, the day of the week must **now** be set. With the Day 1 - Monday key select: 2 - Tuesday

3 - Wednesday

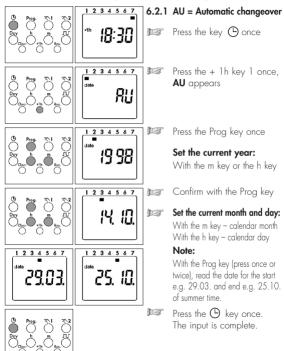




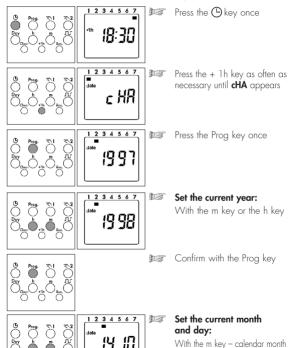


Press the O key once. The clock is now set

6.2 Calendar month and day - Select the Operating mode

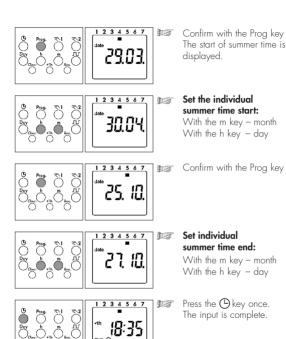


6.2.2 cHA = Weekday - related time change



With the h key - calendar day

GB

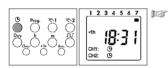


6.2.3 no = no changeover - only weekly time switch





Press the + 1h as often as necessary until no appears. The time switch has no programmed date reference!



Press the key once. The input is complete.

Note:

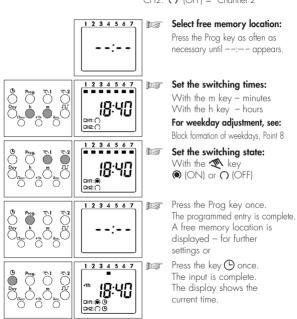
Select day of the week see 6.1

7. Standard switching commands

You determine the switching times and the switching state for the relevant switching output (channel.) Symbol: CH1:

(ON) = Channel 1

(CH2: O (OFF) = Channel 2



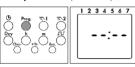
8. Fixed weekday block formation – only weekly time switch

Defined combinations of weekdays or individual days

You determine the weekdays for your switching program.

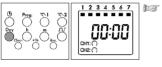
1 - Monday, 2 - Tuesday, 3 - Wednesday, ..., 7 - Sunday.

Example: Monday ... Friday (8:00 ON; 22:00 OFF)

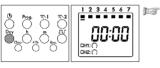


Select free memory location:

Press Prog key as often as necessary until --:-- appears



Press the Day key once All 7 days of the week are activated



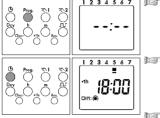
Activating/deactivating days of the week:

Press the Day key stepwise



Note:

Enter the switching times and the switching state $\bullet = \mathsf{ON}; \bigcap = \mathsf{OFF}$ for the switching state (channel). For standard switching commands, see 7.



Press the Prog key once.
The input is complete.
A free memory location is displayed - for further settings or

press the O key 1 once.
The input is complete.
The display shows the current time.

Note:

After the procedures

- read, modify or delete the time, date, switching program
- DCF synchronisation
- restoration of mains power the switching state of the time switch is updated automatically.

9. Read - change - delete - reset

- You can read the program contents stepwise
- You can change or overtype the program contents
- You can delete the program contents
- You can delete the date and time





Read

11-2

Press the Prog key step by step Each individual content is displayed until the end of the program. Then:

- One free memory location
- One digit (free memory locations) (ex. Fr 10)





Change

Press the Prog key step by step as far as the switching command/contents which you want to change/overtype. Change the switching command/ contents:

As described in

Weekday block formation





Delete - individual switching commands

Press the Prog key step by step as far as the switching command/contents which you want to delete.



1123

Press the Clear key once. This switching command is deleted



Fr 30

Press the Clear key and hold it down. **All memory locations are deleted!**

The display shows the number of the max. memory locations.



Reset

Press the Reset key once

The set date and time are reset.

The factory setting AU = automatic s/w-time changeover is active (31.12.1997, 00:00)

All segments are visible for approx. 2 seconds, then 00:00 appears.

AU = automatic s/w time changeover See point 5 and 6 for setting the current date.



The switching output condition (terminals 3 and 6) can always be seen by reference to the output function display symbols.

(= Automatic	Manual = Manual	FIX = Continuous operation
O 🕒 = OFF	• M = ON	FIX = Continuous ON
	O M = OFF	FIX = Continuous OFF
The state of the clock correspond to the entered program.	You have changed — m a n u a l l y — the current state of the clock. The next command in the program is executed again automatically.	You have changed — m a n u a l l y — the current state of the clock. The output will remain fixed ON of OFF until you restore Automatic function by pressing the X key.

11 Technical data

Dimensions (H x W x Dl mm $45 \times 54 \times 60$ Distributor cut-out mm 46×54 Weight a (approx.) 250 and 285 Connection See unit imprint

Power consumption

at 230 V~ (AC) Switching output Switching contact

Switching capacity AC

- ohmic load (VDE, IEC)

inductive load cos φ 0.6

Incandescent lamp load

Switching capacity DC 24 V-/60 V-/220 V-

Method of operation Ambient temperature:

- Control unit

- Brightness sensor Protection class:

- Control unit

Brightness sensor

Protection Type: - Control unit - Brightness sensor

Brightness sensor: - Connecting cable length line cross section

Connection type

Can be lead sealed

Approx. 2.5 VA Potential-free

1 or 2 changeover contacts

16 or 10 A/250 V AC

8 A/250 V AC

2000 W

Approx. 800 mA/300 mA/150 mA

Flectronic

-20°C to +55°C

-30°C to +70°C

II in accordance with FN 60669-1 and Parts

and FN 60730-1 and Parts

II in accordance with EN 60 669-1 and Parts

and FN 60 730-1 and Parts

IP 20 IP 65

Potential-free Max 100 m Min. 0.75 mm²

captive ± screw terminals

ves

Twilight switch:

- Adjustment range

- Hysteresis

- Switching delay

- Switching state display

Time switch:

- Memory locations

- Minimum switching time

Programmable every
 Block formation of

weekdays

- Switching state display

 Summer time/winter time switchover

- Manual switch

ъ.

Running accuracyRunning reserve

2 |x - 500|x

Approx. factor 1.3 of the ON value

Adjustable: Approx. 0-100 s ON/0-100 s OFF

Without delay

20 or 30 1 minute

Minute

Fixed default

Yes

Automatic

Automatic/preselection

FIXED ON/FIXED OFF

Typ. \pm 2,5 s/day at +20° C

3 years from the factory