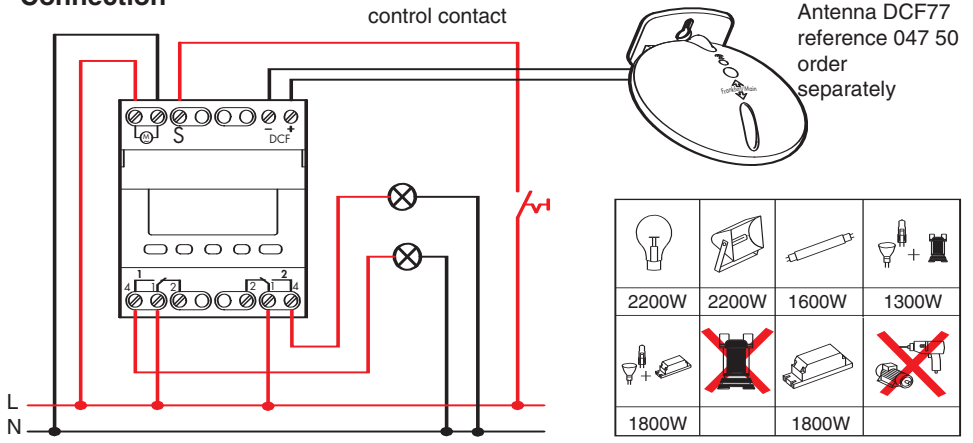


Technical data

Supply voltage:	230V	120V	24V	230V	120V
Frequency:	50/60 Hz				
Consumption:	max. 2W		max. 3W		
Contact rating:	1		2		
	changeover contact 16A 250V-μ cos φ = 1				
Accuracy:	±1s/d				
Terminal capacity:	single strand	multi strand			
	1,5...4 mm ²	1,5...2,5 mm ²			
Additional switching times:	2				
Battery reserve:	6 years				
Position finding:	resolution 1°				
Control line length:	max. 50m				
Control signal:	230V AC/ca. 2mA 120V AC/ca. 2mA 24V AC/ca. 2mA				
Control impulse:	≥20ms				
Storage ambient:	-20°C to +60°C				
Working ambient:	-20°C to +55°C				

Connection



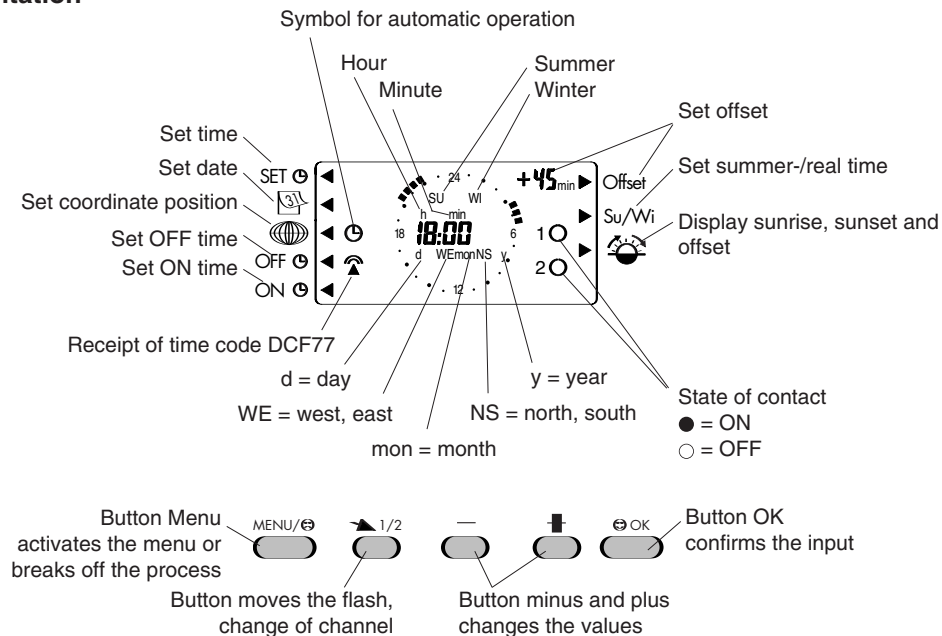
Safety notice

This product should be installed in line with installation rules, preferably by a qualified electrician. Incorrect installation and use can lead to risk of electric shock or fire. Before carrying out the installation, read the instructions and take account of the product's specific mounting location. Do not open up, dismantle, alter or modify the device except where specifically required to do so by the instructions. All Legrand products must be opened and repaired exclusively by personnel trained and approved by Legrand. Any unauthorised opening or repair completely cancels all liabilities and the rights to replacement and guarantees. Use only Legrand brand accessories. The device contains a Li (CF)n cell. When the product reaches the end of its life, this cell must be correctly removed and disposed of in accordance with national legislation and the requirements of environmental protection.

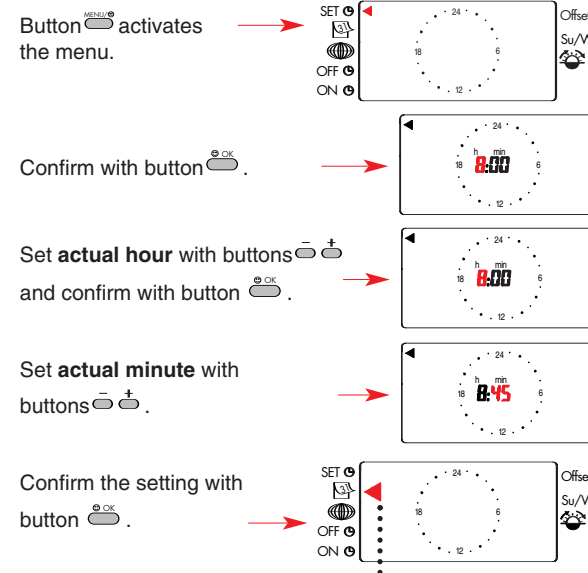
Function

The appliance serves as a control device for switching a consumer on and off at dusk and dawn without external light sensors. Using the data entered (date, current time of day and position coordinates) the time of sunrise and sunset is calculated. At these times the connected consumer is switched on or off. The consumer can also be switched on or off at additional programmed switch times. Via an externally installed antenna Ref. 047 50 (to be ordered separately) the time signal DCF77 can be received. Via a control entry the consumer can be switched on in an overriding manner. If no key is operated for 60 seconds during programming, the switch clock returns to the initial position. The summer / winter time switch can be performed either manually or by the switch clock.

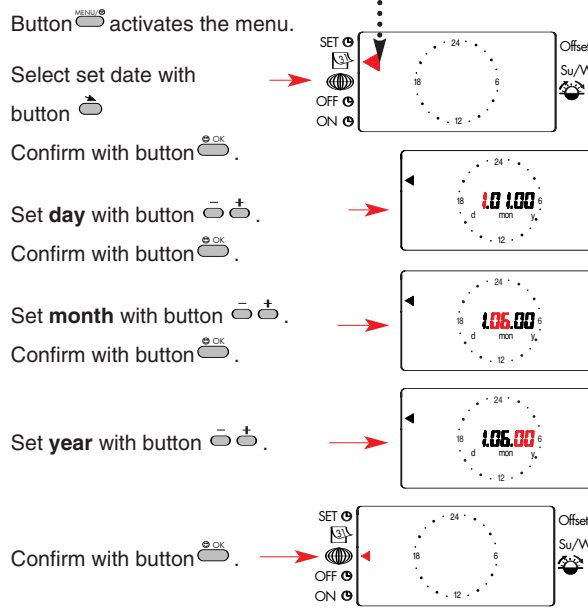
Presentation



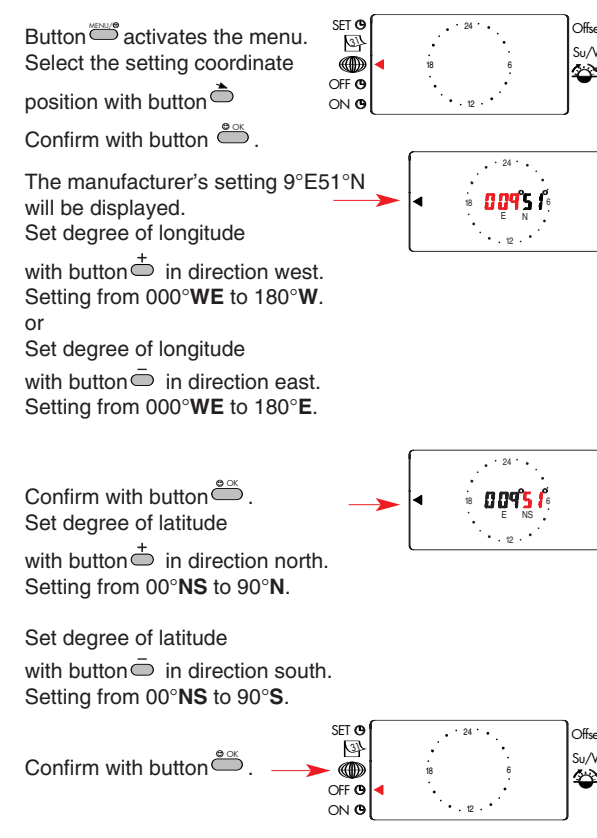
1. Setting actual time



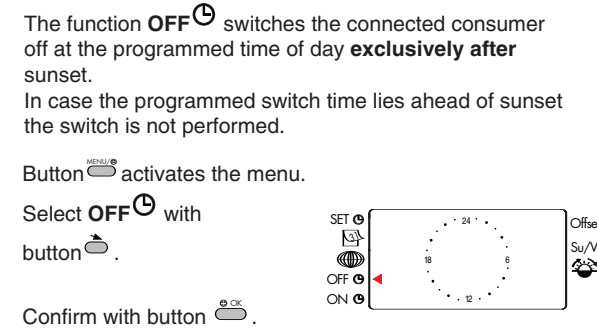
2. Setting actual date



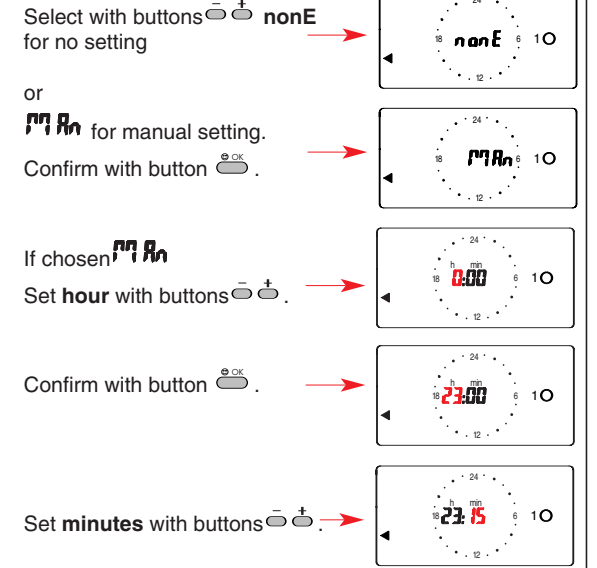
3. Setting coordinate position



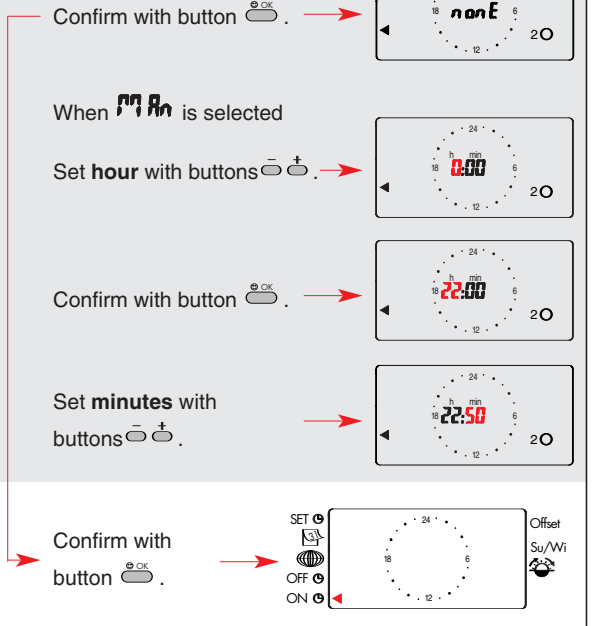
4. OFF = Setting additional OFF time



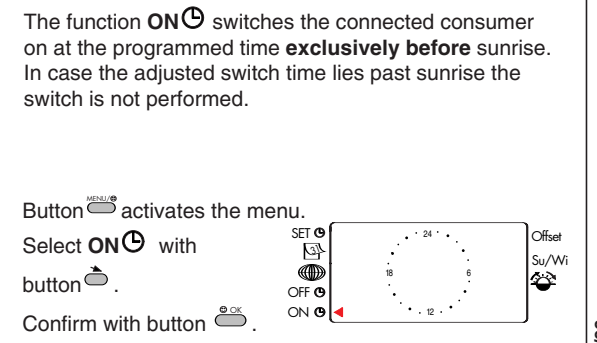
Channel 1



Channel 2



5. ON = Setting additional ON time



Channel 1

Select with buttons **nonE** for no setting

or for manual setting.

Confirm with button .

If chosen Set **hour** with buttons .

Confirm with button .

Set **minutes** with buttons .

Channel 2

Confirm with button .

When is selected

Set **hour** with buttons .

Confirm with button .

Set **minutes** with buttons .

Confirm with button .

6. Setting offset

The time switch will switch at the calculated times of sunrise and sunset. By setting a differential time up to ± 60 minutes the offset will be displaced to the times of sunrise and sunset.

Example: At +30 minutes differential time the time switch will switch 30 minutes **after** sunrise and 30 minutes **before** sunset.

At -30 minutes differential time the time switch will switch 30 minutes **before** sunrise and 30 minutes **after** sunset.

Button activates the menu.

Select offset with button .

Confirm with button .

Set **minutes** with button or .

Confirm with button .

7. Setting summer-/ winter changeover

The automatic changeover depends on your country / area. Choose the appropriate setting for your country / area. If no changeover is required choose **nonE**.

Button activates the menu.

Select Su/Wi with button .

Confirm with button .

Choose the region of summer-/winter (see table) with buttons .

Confirm with button .

Choice	Beginning of summertime	End of summertime	Country / area
Euro	last Sunday in March	last Sunday in October	EU
Gb	last Sunday in March	4th Sunday in October	GB
USA	1 ST Sunday in April	last Sunday in October	only North America
nonE	No changeover	No changeover	

Free programming summer-/winter changeover

Nothern hemisphere
Enter the beginning of summer time applicable to your position / your country as well as the end of summer time. The weekday is automatically matched to the date.

Southern hemisphere
On the southern hemisphere the beginning and end of summer time has to be adjusted for the **same** year.

In the following years the time switch will always be performed on the adjusted weekday, irrespective of the date.

Setting beginning of summertime

Set **day** with buttons and confirm with button .

Set **month** with buttons and confirm with button .

Set **year** with buttons and confirm with button .

Setting end of summertime

Set **day** with buttons and confirm with button .

Set **month** with buttons and confirm with button .

Confirm with button .

8. Display times of sunrise, sunset and switch time shift

The times are displayed alternately in a 2 seconds cycle.

Button activates the menu.

Select symbol with button .

Confirm with button .

Finish the inquiry with button .

9. Radio receiving DCF77 Only when the antenna is connected

After the working voltage is established or after a reset the clock immediately tries to receive the time signal. The antenna symbol blinks.

If the time switch clock recognizes a connected antenna blinking of the receiving waves signals the running data transfer.

When data reception is completed the antenna symbol is displayed continuously.

At each full hour the clock tries to receive the time signal again.

In the absence of an antenna connection the antenna symbol is extinguished and the current time of day as well as the date have to be adjusted manually.

10. Continuous switching ON / OFF

Continuous switching ON

Applicable to 2-channel version. Select channel with key .

Press button for 2 seconds. The circular segment display and **on** will be indicated.

Terminating continuous switching

Press button .

Continuous switching OFF

Applicable to 2-channel version. Select channel with key .

Press button for 2 seconds. The circular segment display will not be displayed and indication **off**.

Terminating continuous switching

Press button .

11. Manual switch On / Off

Applicable to 2-channel version. Select channel with key .

Premature switch on with key or premature switch off with key .

End manual switch

Discontinue the manual switch with the key or with the next switching instruction of the clock.

Reset

Reset 1 Switching program remains

Press buttons and let free together.

Reset 2 Attention! The controller memory will be deleted and all entered data is lost. **The clock is designed in such a way that a Reset 2 is not needed. The details for Reset 2 should be input without an unduly long pause, as otherwise the battery will run down and a power reserve cannot be guaranteed.**

The setting of actual time and time-of-day are indispensable for calculation of sunrise and sunset. Do not forget to actualize all other data (date, coordinate position etc.).

Press buttons simultaneously.

Release button .

Hold down buttons for another 2 seconds.

After buttons are released **TIME** appears in the display

Confirm with button .

Set actual **hour** with buttons and confirm with button .

Set actual **minute** with buttons .

Confirm the setting with button . The display **ZonE** appears.

Confirm with button . The display **utc** appears.

Setting time-of-day

To set the time-of-day use the enclosed **time-of-day map**. Locate for your area the difference of time to UTC (Universal time coordinated) and set this value with buttons .

Set a positive value with button . Example: UTC +1h = central european time

or

Set a negative value with button . Example: UTC -1h

Confirm with button . While the circular segment display is blinking the sunrise and sunset will be calculated.

Action chart control entry

The control signal has to sit close ≥ 20 ms to the control entry in order to trigger a switching instruction for **both channels** (if applicable).

Mains failure

When mains failure happens no information is displayed.

The time switch executes no switching operations.

All inputs are possible. After pressing a button the circular segment display is blinking in automatic operation.

One minute after last button operation the information in the display will no longer be shown.

