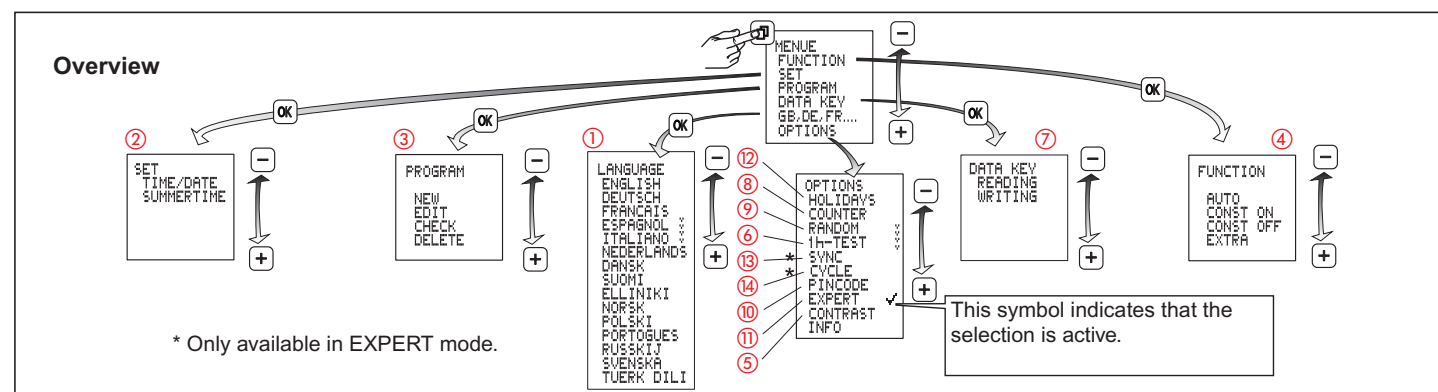
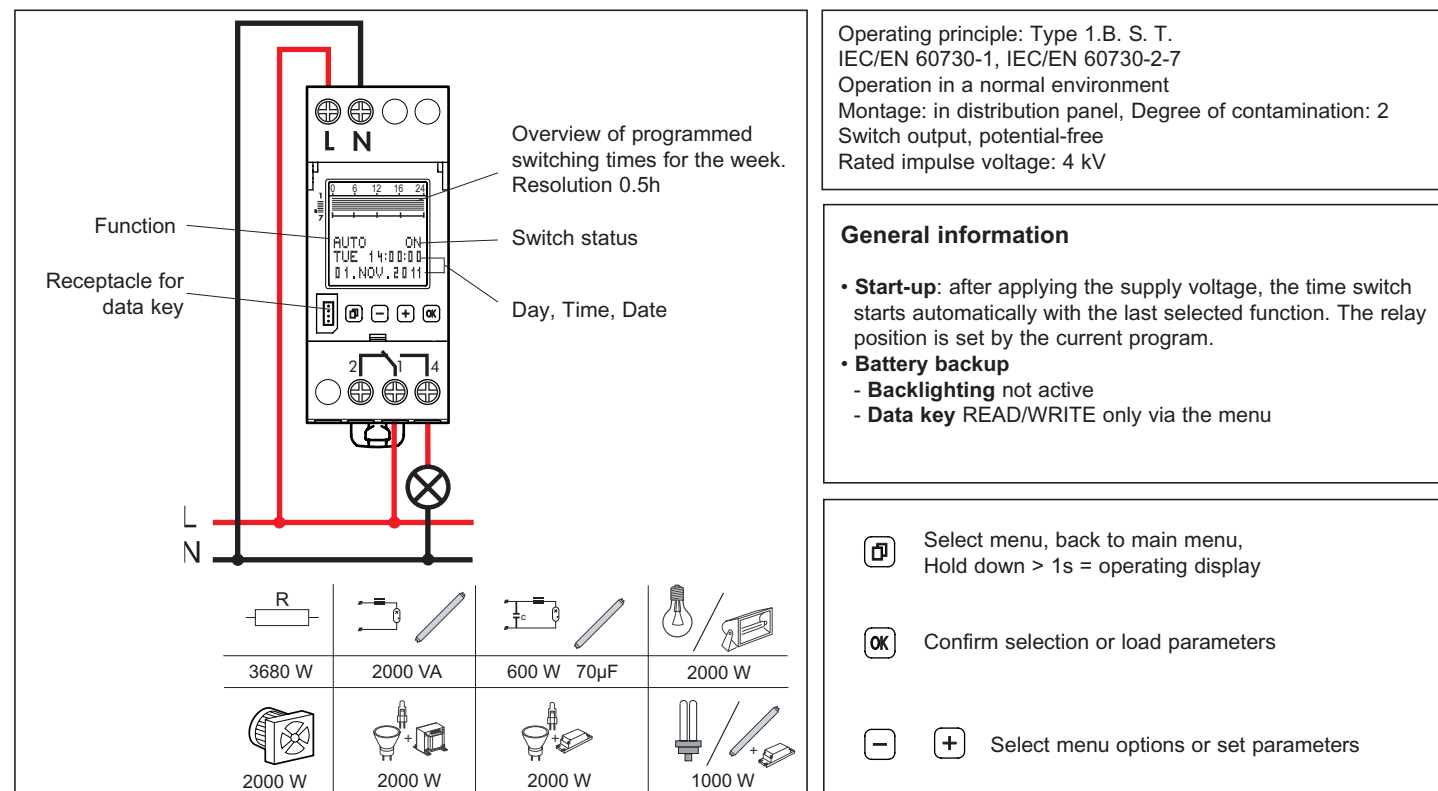


## Safety notes

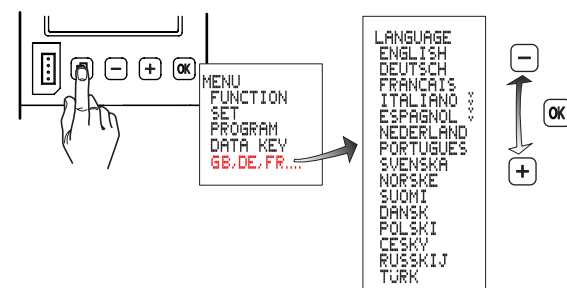
This product should preferably be installed by a qualified electrician. Non compliance may result in a fire hazard or electric shocks. Before installation, read the operating instructions and observe the product specific requirements for the installation location. Use only original spare parts for repair and maintenance. All products may be opened and repaired only by specially trained personnel. Unauthorised opening and repair by other persons will invalidate all claims for liability, replacement or warranty services. The device contains a LiMgO<sub>2</sub> primary 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.



## Technical data

|                              |   |               |
|------------------------------|---|---------------|
| Supply voltage:              | 230V 50/60Hz                              |               |
| Effective power consumption: | Approx. 1 W                               |               |
| Contact rating:              | 1 changeover contact 16A 250V~μ cos φ = 1 |               |
| Parallel compensation:       | 600W max. 70μF                            |               |
| Accuracy:                    | ~ 0,1 s / day                             |               |
| Terminal capacity:           | single strand                             | multi strand  |
|                              | 1,5...4 mm²                               | 1,5...2,5 mm² |
| Programmes :                 | 56  |               |
| Battery reserve:             | 5 years                                   |               |
| Storage ambient:             | -20°C to +60°C                            |               |
| Working ambient:             | -20°C to +55°C                            |               |
| IP:                          | 20  |               |

### 1 Set language



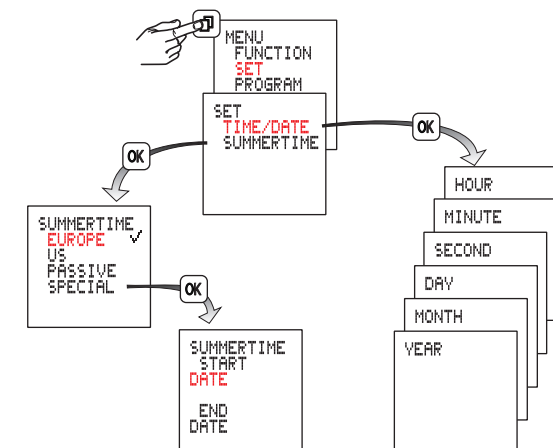
292764/00

## 2 Set time/date, summertime/wintertime

**Summertime:  $\pm 1$  hour**

**Europe:** Factory set

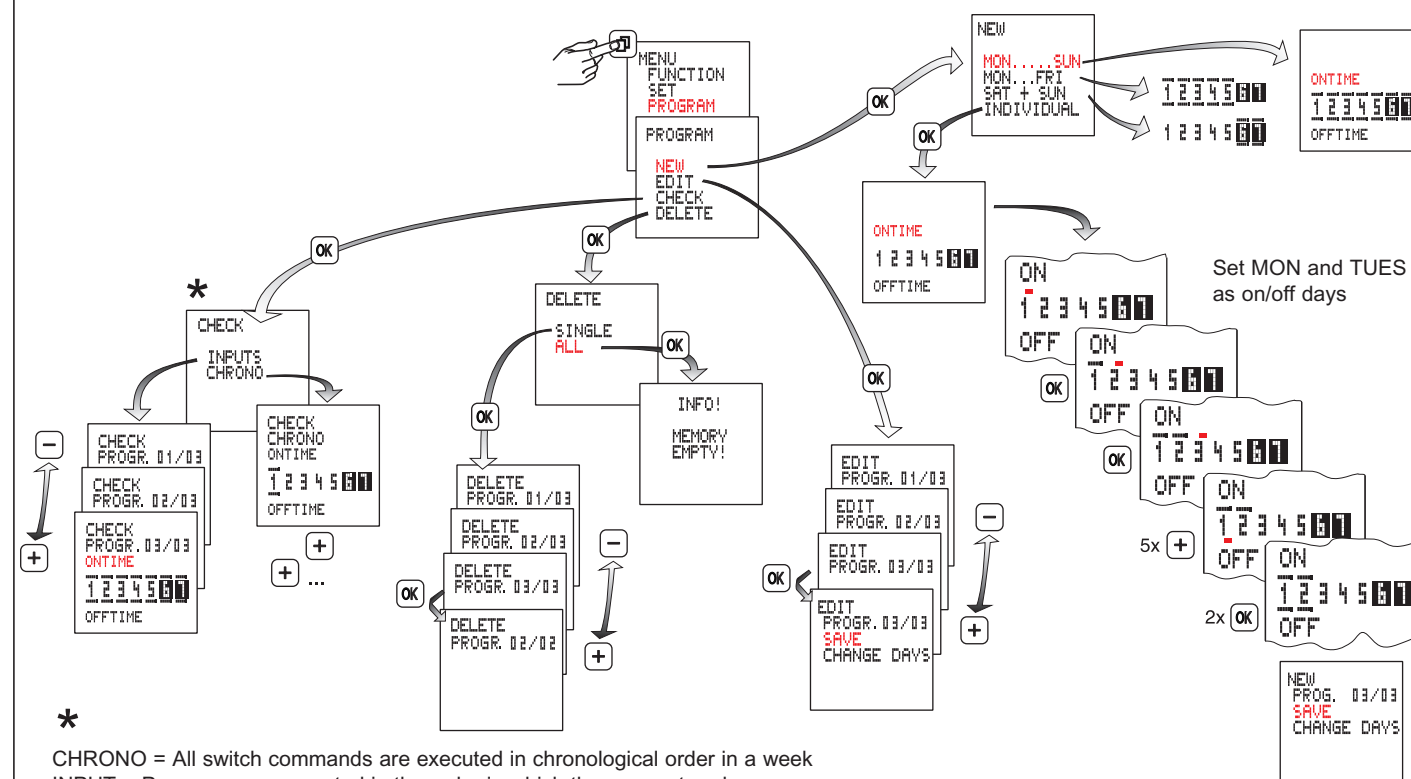
**SPECIAL:** The switchover to/from summertime can be freely programmed by entering a start date and end date and is then executed each year on the same day of the week, e.g. Sunday



### 3 Programming

A program consists of an ON time, OFF time and associated on and off days.

Programs with predefined on/off days (Mon to Sun, Mon to Fri and Sat and Sun): for these programs, you only need to set the switching times. With the „INDIVIDUAL“ option, you can allocate switching times to specific days of your choice.



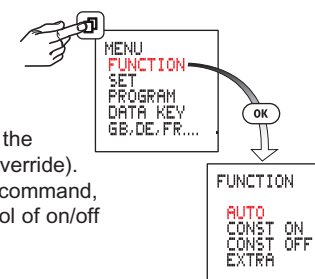
\*

CHRONO = All switch commands are executed in chronological order in a week  
INPUT = Programs are executed in the order in which they are entered

## 4 Modes

- **Auto** - Automatic operation
- **Constant ON**
- **Constant OFF**
- **Extra**

The switch status imposed by the program is inverted (manual override). With the next effective switch command, the time switch resumes control of on/off switching.

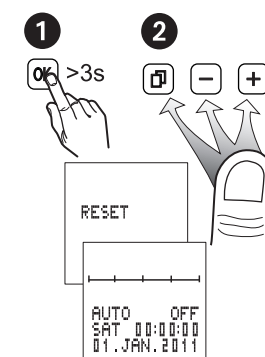


## Reset

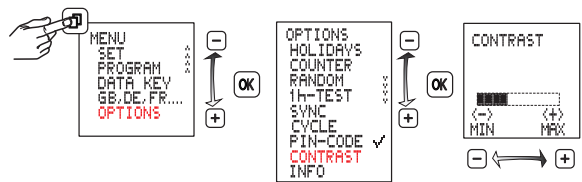
### Warning!

**Warning:**  
The memory will be cleared,  
and all set data will be lost.

Hold down **OK** for more than 3 seconds and at the same time press and release **☐** **−** **+**. The language, time, date, summertime/winter-time and switching times will have to be re-entered.

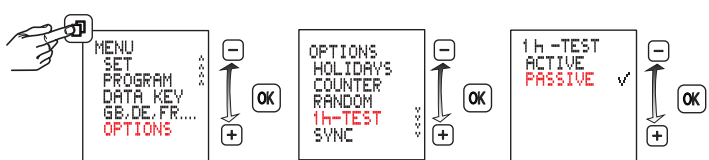


## 5 Contrast adjustment



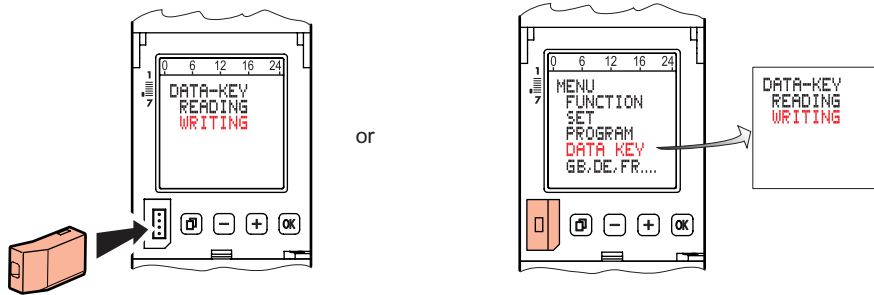
## 6 1 h-Test

When this function is activated, the output is switched on for one hour.



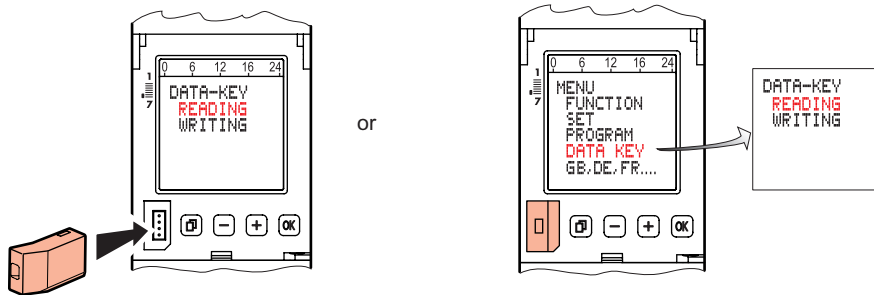
After one hour, the time switch returns automatically to the programmed mode.

## 7 Data key



Load the programs of the time switch on to a data key (WRITE KEY)

**Warning!** all programs stored on the data key will be overwritten.

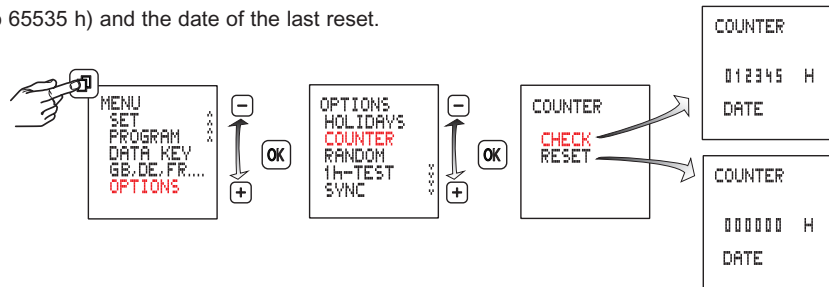


Load the programs from the data key to the time switch (READ KEY)

**Warning!** all programs programmed in the time switch will be overwritten.

## 8 Hour counter

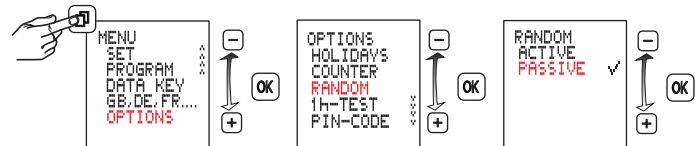
Displays the total relay ON time, (0 to 65535 h) and the date of the last reset.



## 9 Random function

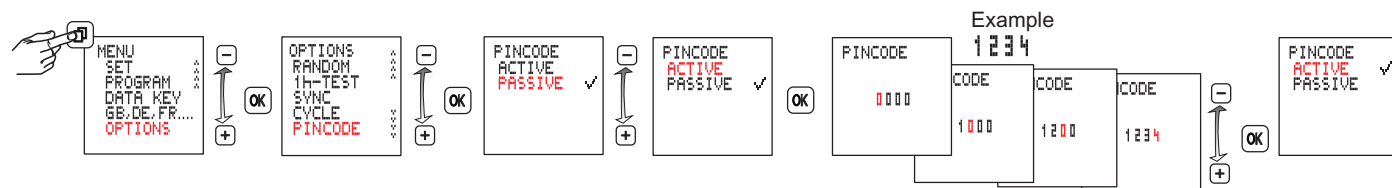
Function to simulate presence.

Function active: the programmed switching cycles are shifted at random within the range of  $\pm 15$  minutes.



## 10 Pincode

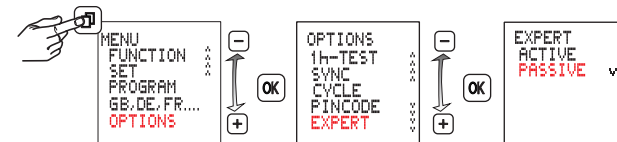
PIN CODE active: The menus of the time switch will not be accessible unless the PIN CODE has been entered. When the pin code is active, access to the button and key functions is disabled 1 minute after the last button press. PIN free access can be re-enabled by selecting PASSIVE or by resetting the device.



## 11 Expert mode

Some additional functions are available in Expert mode:

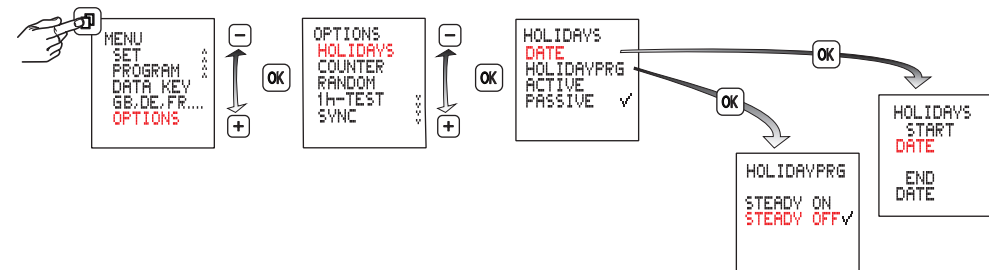
- Power grid synchronisation to improve the accuracy
- Cycle function



**Note:** Upon switching from ACTIVE to PASSIVE the additional menu items are hidden again and all the Expert mode settings are cancelled. After re-activating, Expert mode will operate again with the basic settings.

## 12 Holiday

After activation the holiday program is executed between 0:00h on the start date and 24:00h on the end date (Constant ON/OFF). After the holiday program has run once, it must be reactivated.



## 13 Activating and deactivating grid synchronisation

Only available in EXPERT mode.

The default setting is PASSIVE. In order to improve the long-term accuracy, it is advisable to activate synchronisation if the time switch is supplied from a 50/60 Hz grid with frequency adjustment.

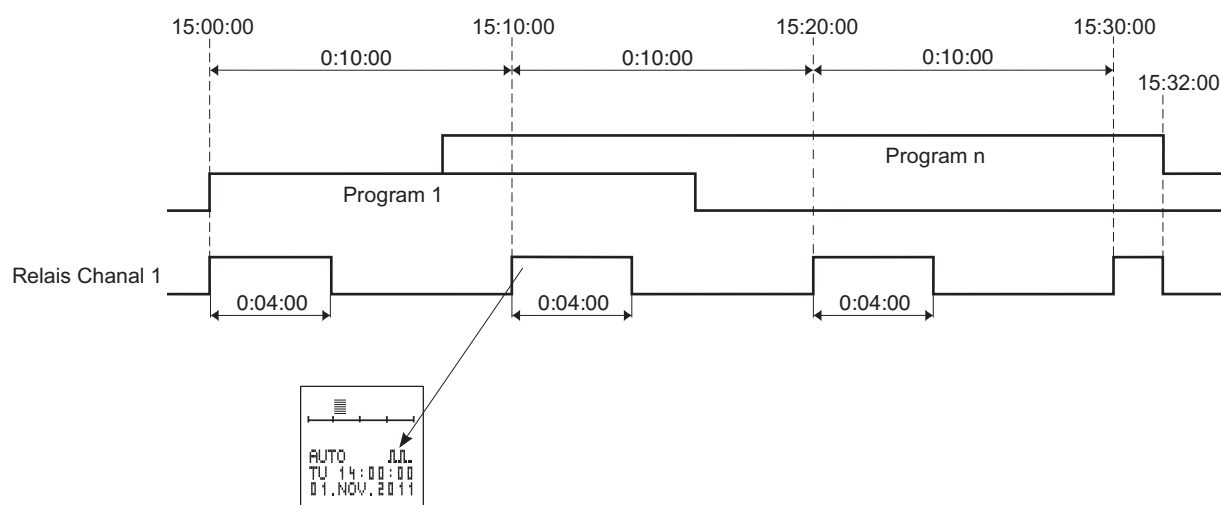
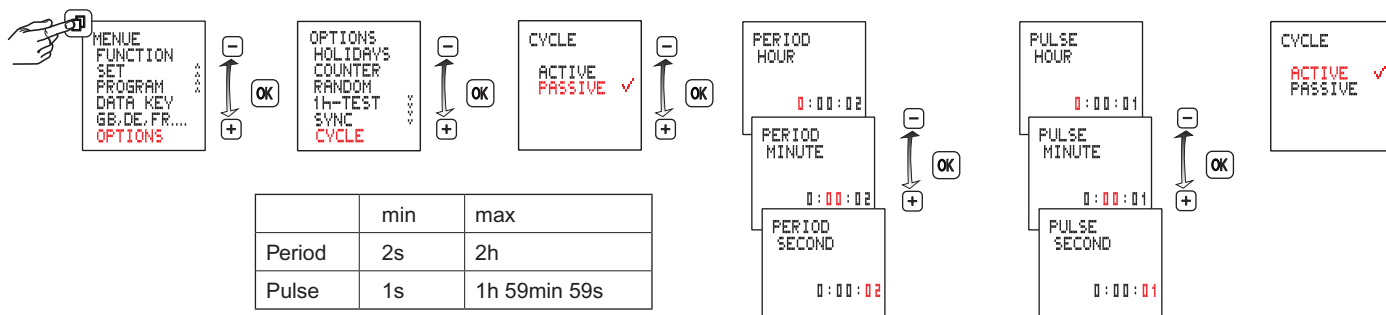


## 14 Cycle function

Only available in EXPERT mode

For cyclical switch commands the switching on time is set by logical "OR" of programs of all types. A fixed cycle of ON and OFF time then operates within those limits. The cycle always starts with the ON time.

The cycle duration and the ON time within the cycle are the same length for all switching times. The cycle duration and the ON time can be set independently in one-second increments. If the switching time is shorter than the cycle duration, the cycle will be shortened accordingly. The ON time will remain unchanged. If the switching time is actually shorter than the ON time, the ON time will be shortened accordingly.



Switch off the device before dismantling the module. Do not switch on again until the module has been installed.  
Always use a Li cell type battery (LiMnO<sub>2</sub>) CR2477, 3V, high temperature type min +70°C.

