ManHua
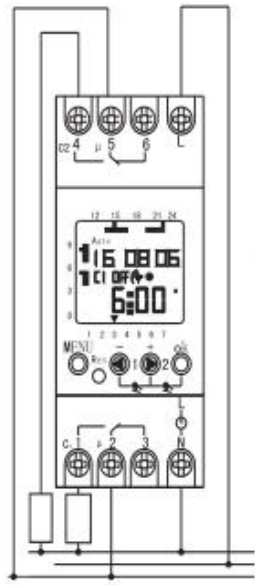
Time Switch MT822

According to version preprogrammed with the current time and Summer/winter norm time

⚠ Safety Information

The connection and installation of electrical must be performed by a skilled electrician only. Any intervention into or modifications to the appliance shall lead to the lapse of all warranty rights. Comply with your national regulations and all relevant safety stipulations.

Overview per day of the Programmed switching times
3=Wednesday

Channel statuses
C1 or C2 are displayed alternately **On/OFF**

Service voltage ok:
Two flashing dots
Power reserve mode:
Three flashing dots

Selection
e.g: AutoProg ⏲
Man、PulseCycle,
Abort input

Display of special function:
Permanent ON/OFF
Random program active ⊠
Holiday program active ■

Displayed only when summer/winter time changeover is activated
Summer time ☀
Winter time ⊗

Current days of the week
1=Monday, **2**=Tuesday,…

The decision **Yes** confirms the selection or programming

Decision **No** mean continue

Common technical specifications

Rated voltage: 230-240v~+6%-10%

Frequency: 50-60Hz

Own consumption: max. 7.5 VA

Contact: zero-potential, gap less than 3mm

Switching power : 16A, 250V~, cos = 1;

10A, 250V~, cos =0.6

Incandescent lamp load: 2300 W

Halogen lamp load: 2300 W

Timing basic: quartz

Working precision: 1 sec./day at 20

Shortest switching time: 1 minute

Display: LCD display with text line

Operating control elements: 4 touch keys and

1 reset key

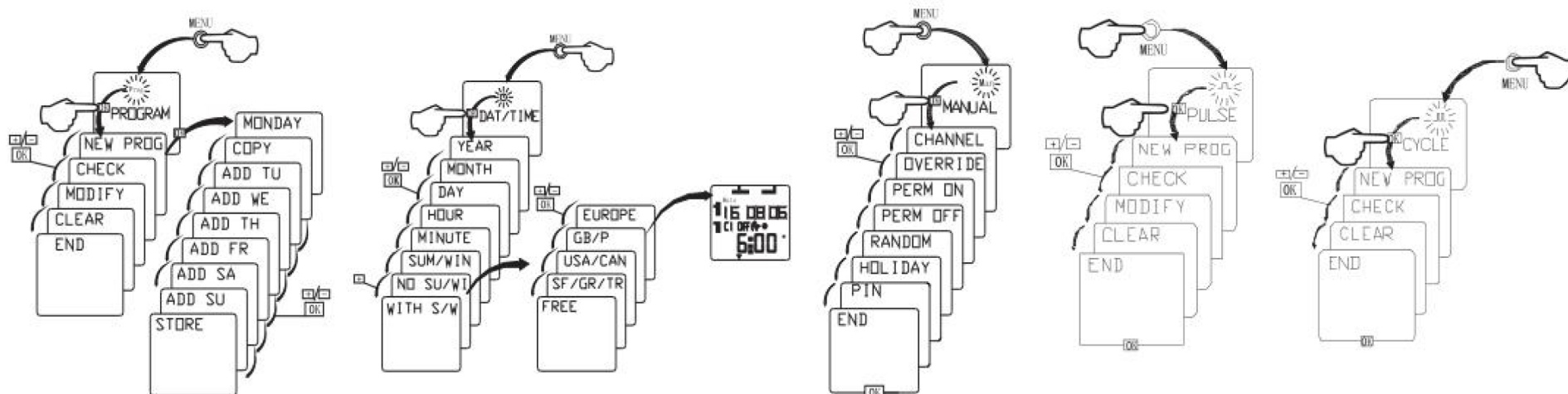**Power reserve:** approx. 4 years with display with

full controllability(temp. 20) by means of an
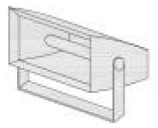
environmentally friendly lithium battery
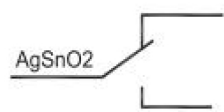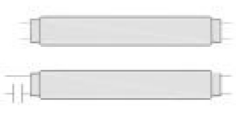
Permissible ambient temperature:

-10   50

Weight: approx.170 g

Technical Data

AHC 822 0 XXX 230V 10 50 60 Hz 240V 6 14 50 60 Hz	16 10 A 250V min 100mA 24V AC DC	Degree of protection IIEN 60730 IP 20 EN 60529	2300W	9×7 W 7×11W 7×15W 7×20W 7×23W	400W 42µF
AHC 822 1 XXX 120V 10 50 60 Hz	Type 1 BSTU IEC EN 60730 2 7	44 memory locations	AgSnO2	2300W	1000W

Summer/winter time
Setting/correcting the date and time

Read the text display first of all.
Read the text display first of all.
Select by pressing the ⊕ key
or ⊖ keys.
Store by pressing the OK key.

Automatic summer/winter time correction
According to version the timer is
pre-programmed ex-works complete with
the change-over. Should you switch off
the automatic facility or wish to alter it,
first of all read the text display .
Select by pressing + or –
Store by pressing OK
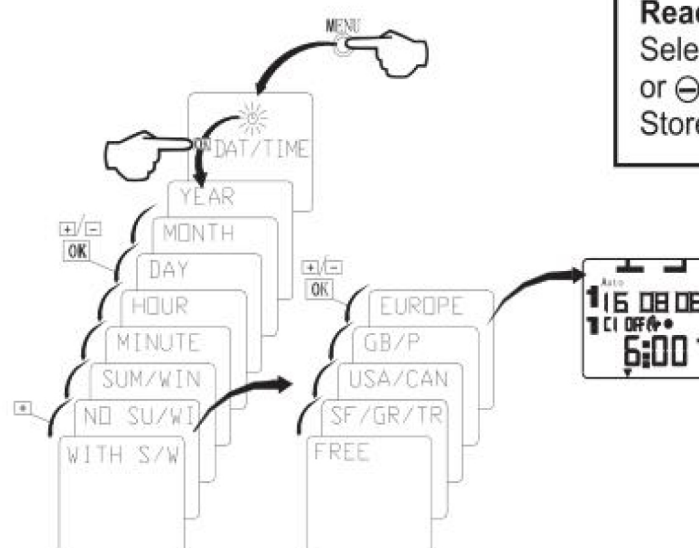
Free Prog to select sum/win change-over
other than EUR-GB –USA.
Select sum/win ,and after with sum/win.
Store with OK
Select rule FREE-with buttons   + or –
Input month and weeks for sum/win.
Store with OK

Note: In sum/Win free Prog the time change is set automatically
at Sunday 2 AM.
Time change is not available.

First contact

Info

The timer is delivered in so-called sleep mode .To increase the power reserve the switch clock changes to the sleep mode after approx.10 minutes.

To activate without a service voltage
Briefly press the Menu key.

Activate with mains voltage
If the timeswitch is already pre- programmed with the actual time , the weekday, and the changeover setting for Summer/Winter time, the actual time and status display appears after selection of the National language.
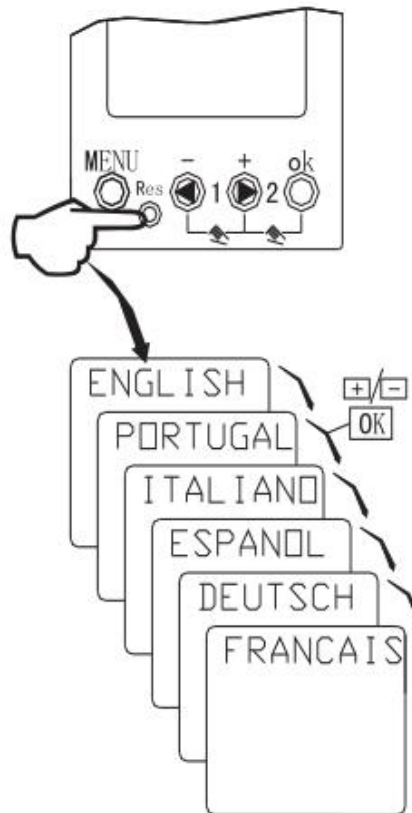**If the timer is not pre-programmed**
First select your national language and then enter the actual date and time.

Activate the clock,
Select the national language
By pressing the o+ keys. select your national language.
Store your selection by pressing the OK key.

ENGLISH
PORTUGAL
ITALIANO
ESPANOL
DEUTSCH
FRANCAIS

+/−
OK

OK The decision **Yes**.confirms the selection
● or programming.

+ The decision No,means
► continue.

Set or amend by pressing the + or keys.

For programming, viewing, amending or deleting
First of all read the text display.
Menu selection
Select by pressing the Menu Prog key.
Confirm by pressing OK .
By pressing the key select the desired menu.
e.g. New, View ,Amend or Delete.
Confirm your selection by pressing OK .
Set or change:by pressing or+ −
Store by pressing OK .
To display the switching times:
In the menu View, press the OK key several Times.

RESET(only in case emergency):If you perform a RESET of the timer, the individual settings will be deleted. The programmes switching times remain intact. Press the **Res** key with and a pointed object for approx.1 second.

Programming the switching time

Switching times for lighting systems, machines, ventilation systems, alarm systems etc.
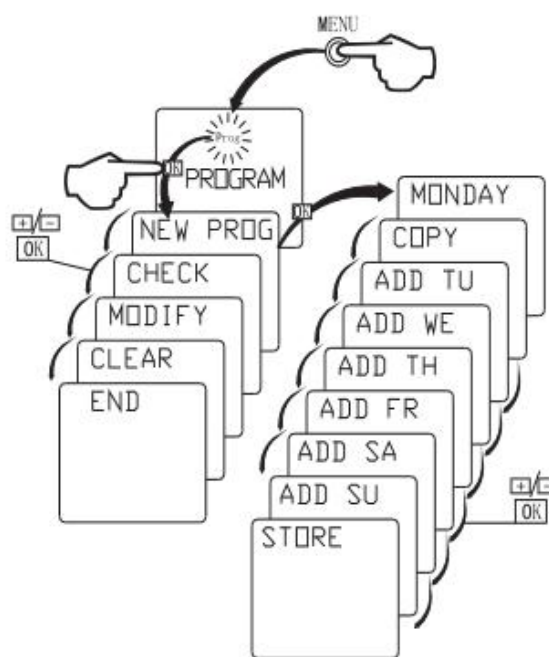
Formation of day groups
If the same switching times are active on several days of the week, the occupy just one memory location.
44 memory locations are available.
Group formation
In answer to text question **Copy**, decide by pressing the OK Key that the day program Should be copied to another day of the week .
The **Mixed programming** of switching ,pulse and cycle times is allowed.

When programming an ON and OFF switching time, e.g. Monday 9 AM, It is always the programme the last setting is excuted.

MENU

PROGRAM

NEW PROG
CHECK
MODIFY
CLEAR
END

+/−
OK

MONDAY
COPY
ADD TU
ADD WE
ADD TH
ADD FR
ADD SA
ADD SU
STORE

+/−
OK

Example: Switching on the lighting of a sports hall on Mon, Tues, Fri. from 8.30h until 12h.

Programming example
Select **PROG** by pressing the Menu key.
Store your selection by pressing the OK key.
Select **NEW** by pressing + or −
Store your selection by pressing the OK key.
Select **ON** by pressing + or −
Store your selection by pressing OK
Set the hours and minutes by pressing the + or − key.
Store selection by pressing OK
To store one day of the week only
Select weekday by pressing + or −
Select store by pressing +
Store by pressing OK
To copy to other days of the week
Store **COPY** by pressing OK
Select weekday by pressing + or −
Store by pressing OK
To leave out a day of the week ,skip by pressing the key.
Finally select the **STORE** display by pressing +
Store your selection by pressing OK

PIN-Code

PIN

The device can be locked against unauthorized use with a 4 digit code number.
Select the **Manual** menu using + or –
Confirm with the [OK] button.

Selection **WITH PIN**

Select **WITH PIN** using + or –
Confirm with the [OK] button .Make note of any desired 4-digits number.
Select the first digit of your 4 digit code using.
+ –
Confirm the entered digit with [OK]
Select further digits as described using + or –
Confirm each selected digit with the [OK] button.

The device is locked 60 sec. after the last keystroke and can only be operated after the correct PIN code is entered.
Selection **WITHOUT PIN**
Select **WITHOUT PIN** using + or –
Confirm with the [OK] button.
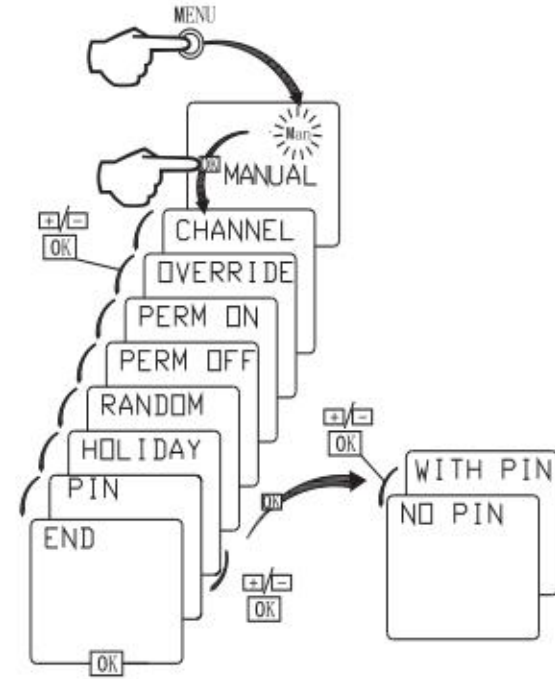
If a PIN code has been activated, the timer can no longer be activated without a valid PIN code after a RESET.

The device must be sent in!

Individual deletions
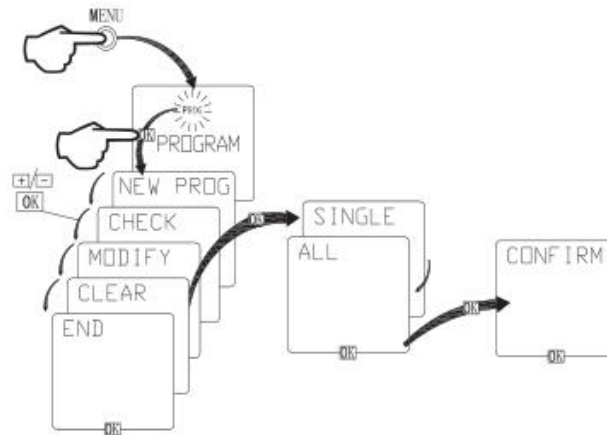
Override Permanent ON or OFF
Via the automatic menu Auto only

|	− + ◀ ▶ Channel C1	+ OK ▶ ◯ Channel C2
Press the two Key for **approx. 1 s.**	Manual preselection: Press keys simultaneously **Channel C1** switches alternately ON or OFF. Symbol appears. Manual preselection is corrected again by the stored program.	Manual preselection: Press keys simultaneously **Channel C2** switches alternately ON or OFF. Symbol appears. Manual preselection is corrected again by the stored program.
Press the two Key for **approx. 2 s.**	Permanent ON OFF	Permanent ON OFF
Cancellation of manual preselection/permanent switching: Briefly press the keys shown above.		

Pulse program

e.g.:for breaktime signals, ventilation systems, flushing systems, bell controls etc.

Effect of the pulse program:
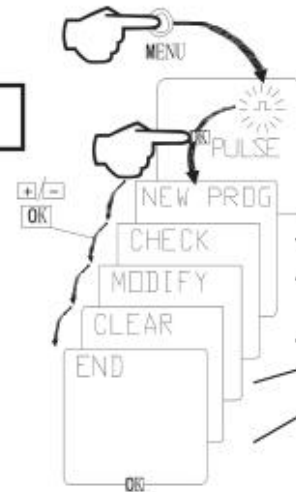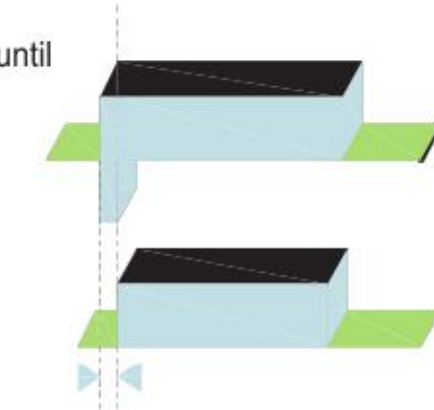The pulse time can be set within the range 1 to 59 seconds.

Symbol ⊓⊔flashes as long as the pulse program is active.

Switch-off delay
Program:
7.00 until 17.30 and pulse at 17.30 h
pulse ON, duration 15 s

Example:
Switch off at
17.30 h 15s
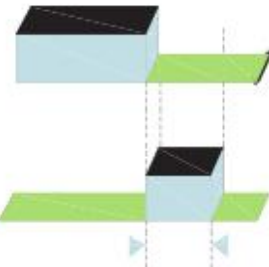
Switch-on delay
Example:
Switch-on at 7.00 h 15 s
Program
To switch on from 7.00 h until 17.30 h and
pulse, OFF at 7.00 h
pulse duration 15 s

Always read the text display first of all. You will be provided with programming help. Confirm your selection by pressing the OK key.
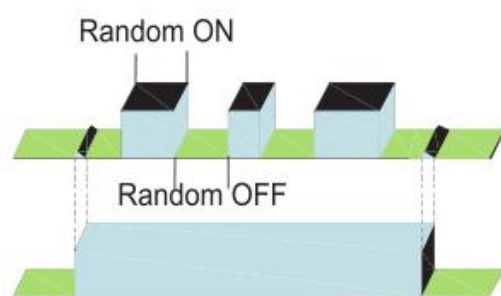
info

Viewing the pulse times
Only possible in the menu PULSE.
Day group formation
If the same pulse switching times are effective on several days of the week, they occupy one pulse memory location only, e.g.: Mon, Tues, Fri, pulse time 7.30 h. 44 memory location are for pulse programming.

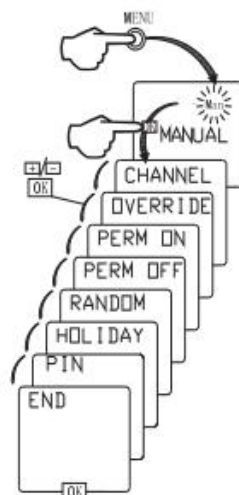# Permanent ON or OFF
Random or Holiday program

Effect of the random program:
The random program causes the timer to switch between programmed pairs of switches (ON and OFF). The random on and off times range between approx.10 mins. and 120 min.The random time always begins with OFF.

Symbol ⊠flashes when the random program is effective.

Read the text display first of all
In the menu Man, select by pressing the **+** or **−** key the function manual, permanent, random or holiday.
Confirm your selection by pressing the OK Key.
To cancel a function:
Select the function clear.
Store your selection by pressing OK

Random ON

Random OFF

Example:
Random start
19.30 h ON

Example:
Random finish
6.00 h OFF

Effect of the holiday program: The holiday program has the effect that the timer does not switch on the connected consumer unit between the programmed start and finish (stipulation of year, month, day).**Start and finish** of the program of the program is always **midnight** on the day that is programmed.
Example:25.3.national holiday.
Programming: start 25.3.finish 25.3.
If the holiday program is active, the corresponding channel and holiday symbol are ■ displayed flashing on the automatic menu.
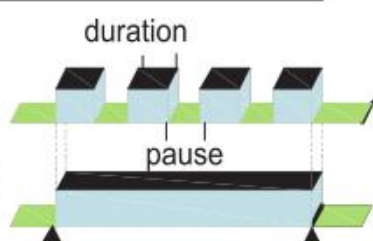
Cycle program

Cyclically recurring time functions within the scope of a timer, e.g. slow flashing indicator, water treatment,advertisement lighting.

Effect of the cycle program:
The clocking and pause times can be set separately .The settable times are max.99 minutes and 59 seconds. The cycle program has the effect that between two programmed times, day of week start and day of week finish, the cycle program is active. The cycle program always begins with a switch on.

Brightness variations at lighting installations may arise in the cycling mode .In this case actions to reduce these effects have to be taken (for example reduction of the load or extension of the cycle time).More than five switching operations per minute are not admissible Without additional EMC interference measure.

The symbol ⎍⎍ flashes when the cycle program is active.

MENU

CYCLE

NEW PROG

CHECK

CLEAR

END

+/−
OK

OK

duration

pause

Example cycle start:
Monday 7.30 h ON

Example cycle finish:
Friday 16.30 h OFF
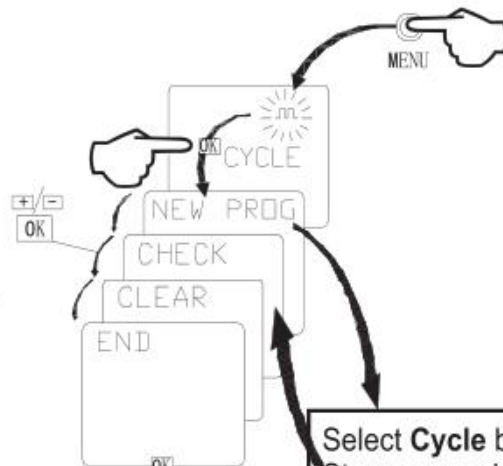
Select **Cycle** by pressing the Menu key .
Store your selection by pressing the OK key.
Set cycle **start** by pressing the keys + or −
Store your selection by pressing the OK key.
Set cycle **duration** (Min./sec.)by pressing the keys + or −
Store your selection by pressing the OK key.
Set cycle **pause** (Min./sec.) by pressing the keys + or −
Store your selection by pressing the OK key.
Set cycle **finish** by pressing the keys + or −
Store your selection by pressing the OK key.
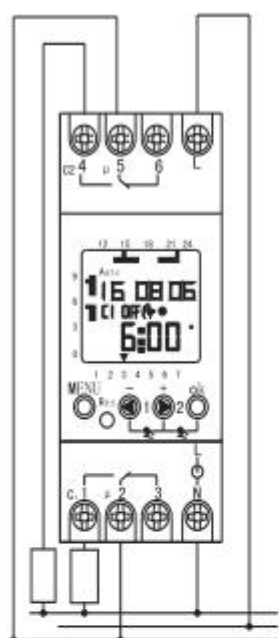
View the cycle times:
Possible in the menu Cycle only !
N.B.: If two cycle times are programmed in which the start and finish times overlap, it is always the cycle time that starts first that is executed.

Dimension drawings

According to version preprogrammed with the current time and Summer/winter norm time

45 5

35 8

65.5

35 5

90 3

85 6

35.8

⚠ Safety Information

The connection and installation of electrical must be performed by a skilled electrician only. Any intervention into or modifications to the appliance shall lead to the lapse of all warranty rights. Comply with your national regulations and all relevant safety stipulations.