SFRST1822 (2-channel 7 day timers)

CBi electric
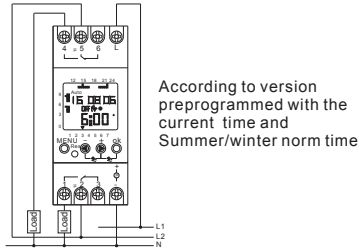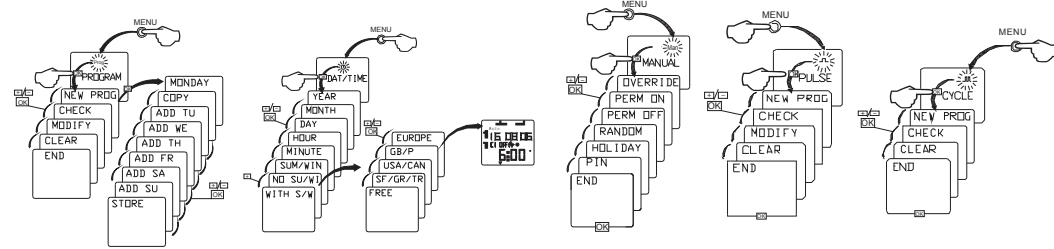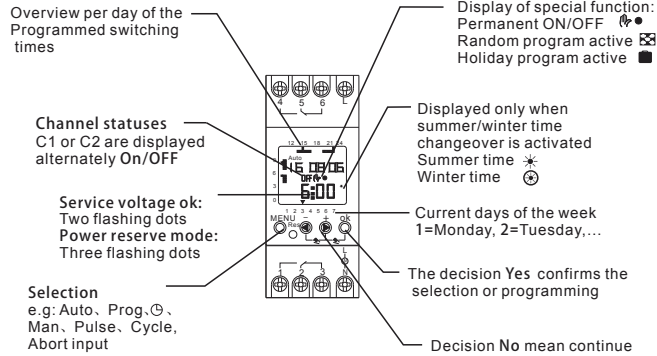Australia

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

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

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: Auto、Prog、⏱、Man、Pulse、Cycle, Abort input

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

Technical Data

AHC 822 top1 AC230V +6/- 10%	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 822L top1(Backlight) AC230V +6/- 10%	Type 1 BSTU IEC/EN 60730-2-7	58 memory locations	AgSnO2	2300W	1000W

First contact
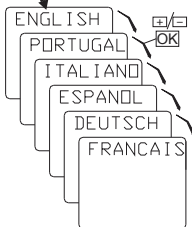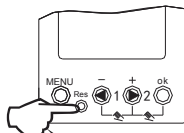
Info

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 ⊕or ⊖keys. select your national language.
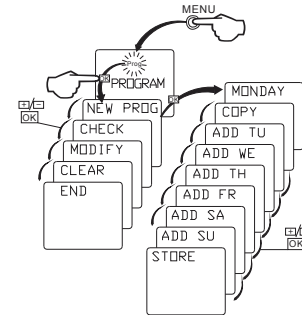Store your selection by pressing the OK key.

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.

ENGLISH
PORTUGAL
ITALIANO
ESPANOL
DEUTSCH
FRANCAIS

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.

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.
58 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 .
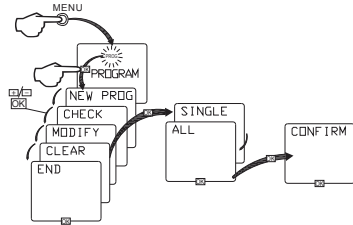The **Mixed programming** of switching ,pulse and cycle times is allowed.

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

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 **channel C1** or**C2** 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.

Individual deletions

```
        MENU
         |
      PROGRAM
   OK    |
    NEW PROG
      CHECK ─── SINGLE
      MODIFY    ALL ──── CONFIRM
      CLEAR
      END
```

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.	

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.

```
        MENU
         |
       MANUAL
   OK    |
    OVERRIDE
    PERM ON
    PERM OFF
    RANDOM
    HOLIDAY
    PIN
    END
```

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.
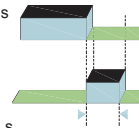
Pulse program

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

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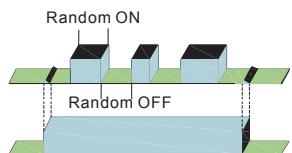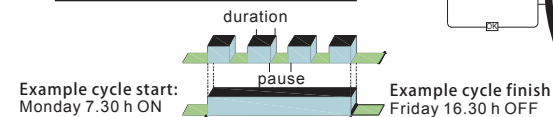The pulse time can be set within the range 1 to 59 seconds.

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

```
        MENU
         |
       PULSE
   OK    |
    NEW PROG
      CHECK
      MODIFY
      CLEAR
      END
```
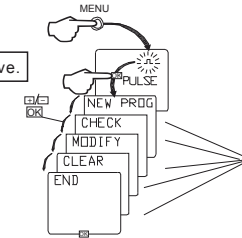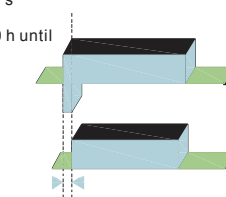
Always read the text display first of all. You will be provided with programming help. Confirm your selection by pressing the OK key.

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. 58 memory location are for pulse programming.
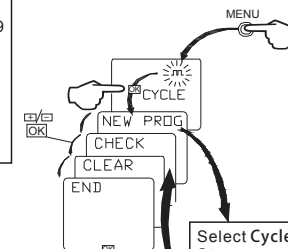
Cycle program
Cyclically recurring time functions within the scope of a timer, e.g. slow flashing indicator, water treatment, advertisement lighting.

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.

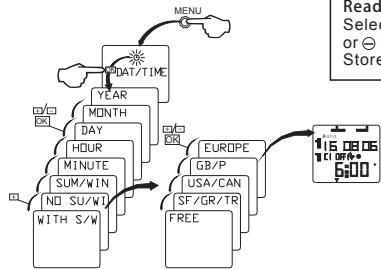The symbol ⊓⊓ flashes when the cycle program is active.

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.

```
        MENU
         |
       CYCLE
   OK    |
    NEW PROG
      CHECK
      CLEAR
      END
```

duration
pause

Example cycle start:
Monday 7.30 h ON

Example cycle finish :
Friday 16.30 h OFF

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.

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.

Setting/correcting the date and time Summer/winter time

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.

MENU
DAT/TIME
YEAR
MONTH
DAY
HOUR
MINUTE
SUM/WIN
NO SU/WI
WITH S/W
EUROPE
GB/P
USA/CAN
SF/GR/TR
FREE

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

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

Common technical specifications

Rated voltage: AC230V +6/- 10%

Frequency:50/60Hz

Own consumption: max. 5 VA

Contact: zero-potential, gap less than 3mm

Switching power :16A, 250V~, cosφ=1;

10A, 250V~, cosφ=0.6

Incandescent lamp load :2300 W

Halogen lamp load:2300 W

Timing basic: quartz

Working precision:≤±1 sec./day at 20°C

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°C) by means of an

environmentally friendly lithium battery

Permissible ambient temperature:

-10°C…+ 50°C

Weight: approx.140 g

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.

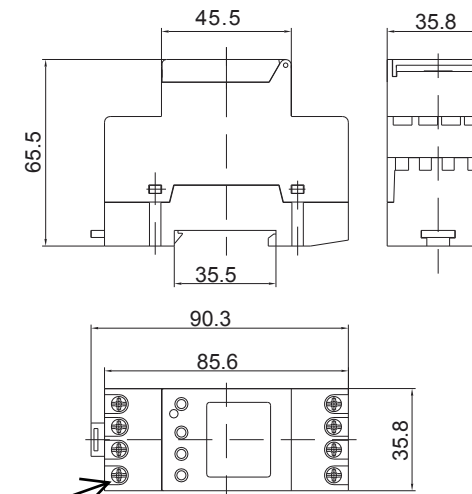The device is locked 60 sec. after the last keystroke and can only be operated after the correct PIN code is entered.
Selection **WITHOUT PIN**
Select **WITHOUT PIN** using ⊕ or ⊖
Confirm with the OK button.

MENU
MANUAL
OVERRIDE
PERM ON
PERM OFF
RANDOM
HOLIDAY
PIN
END
WITH PIN
NO PIN
OK
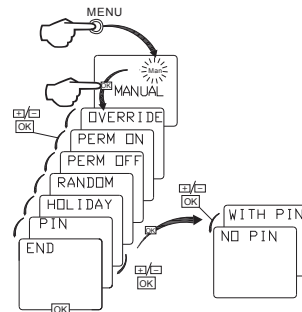
If a PIN code has been activated, the timer can no longer be activated without a valid PIN code after a RESET.

The device must be sent in!

Dimension drawings

45.5
35.8
65.5
35.5
90.3
85.6
35.8