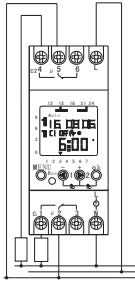


E01 - Digital Timer Switch

2-channels programming digital timers



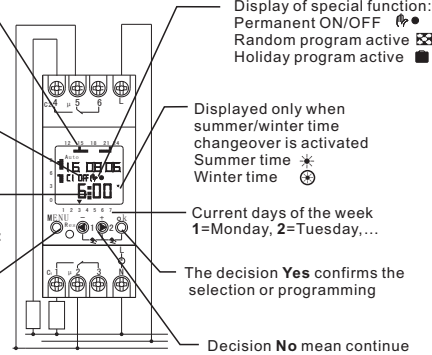
According to version preprogrammed with the current time and Summer/winter norm time

Overview per day of the Programmed switching times
3=Wednesday

Channel statuses
C1 or C2 are displayed alternately On/OFF

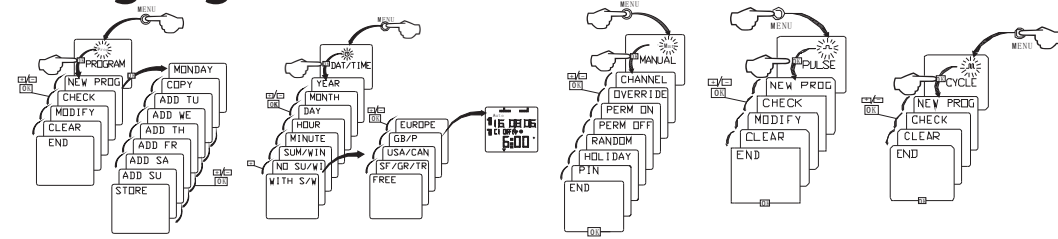
Service voltage ok:
Two flashing dots
Power reserve mode:
Three flashing dots

Selection
e.g: Auto, Prog, Man, Pulse, Cycle, Abort input



⚠ 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.



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 IEN 60730 IP 20 EN 60529	2300W	9x7 W 7x11W 7x15W 7x20W 7x23W	400W (42µF)
120V +/- 10% 50-60 Hz	Type 1 BSTU IEC/EN 60730-2-7	44 memory locations	µ	2300W	1000W

First contact

Info

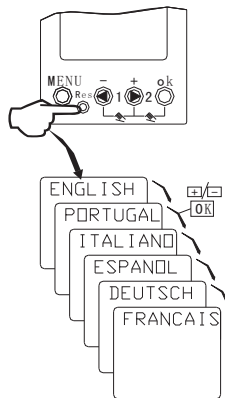
The timer is delivered in so-called sleep mode. To increase the power reserve the switch clock changes to the sleep mode after approx. 10 minutes.

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 \oplus or \ominus keys, select your national language.
Store your selection by pressing the **OK** key.



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

\oplus The decision **No**, means continue.

Set or amend by pressing the \oplus or \ominus 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 \oplus key select the desired menu.
e.g. New, View, Amend or Delete. Confirm your selection by pressing **OK**.
Set or change: by pressing \oplus or \ominus . 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 switching time

Switching times for lighting systems, machines, ventilation systems, alarm systems etc.

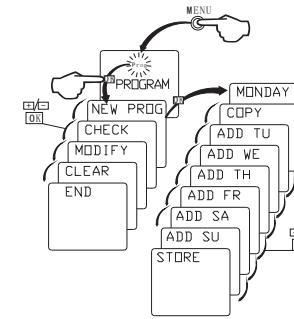
Formation of day groups

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 executed.



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

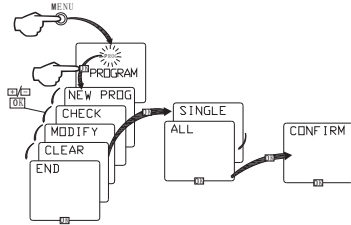
Programming example
Select **PROG** by pressing the **Menu** key. Store your selection by pressing the **OK** key. Select **NEW** by pressing \oplus or \ominus . Store your selection by pressing the **OK** key. Select **ON** by pressing \oplus or \ominus . Store your selection by pressing the \oplus or \ominus key. Store selection by pressing **OK**.

To store one day of the week only
Select weekday by pressing \oplus or \ominus . Select store by pressing \oplus . Store by pressing **OK**.

To copy to other days of the week
Store **COPY** by pressing **OK**. Select weekday by pressing \oplus or \ominus . Store by pressing **OK**.

To leave out a day of the week, skip by pressing the \oplus key. Finally select the **STORE** display by pressing \oplus . Store your selection by pressing **OK**.

Individual deletions



Override Permanent ON or OFF Via the automatic menu Auto only

	Channel C1	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

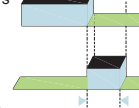
e.g.:for breaktime signals, ventilation systems, flushing systems, bell controls etc.

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

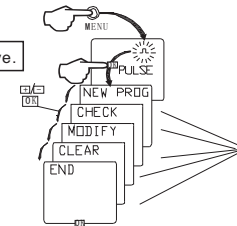
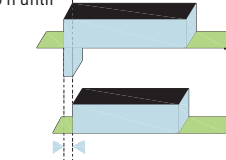
Symbol flashes as long as the pulse program is active.

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 key.

info

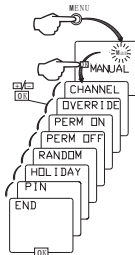
Viewing the pulse times
Only possible in the menu PULSE.

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.

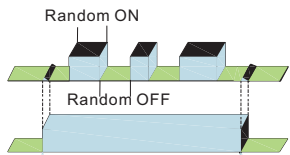
Permanent ON or OFF Random or holiday program

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.



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 Key.
To cancel a function:
Select the function clear.
Store your selection by pressing .

Symbol flashes when the random program is effective.



Example:
Random start
19.30 h ON

Example:
Random finish
6.00 h OFF

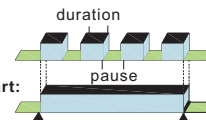
Effect of the holiday program: The holiday program has the effect that the timer does not switch on the connected consumer unit between the programmed start and finish (stipulation of year, month, day). **Start and finish** of the program of the program is always **midnight** on the day that is programmed.
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.

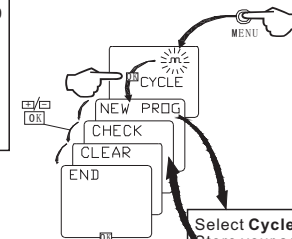
The symbol flashes when the cycle program is active.



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.

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.



Select **Cycle** by pressing the key. Store your selection by pressing the key.
Set cycle **start** by pressing the keys or . Store your selection by pressing the key.
Set cycle **duration** (Min./sec.) by pressing the keys or . Store your selection by pressing the key.
Set cycle **pause** (Min./sec.) by pressing the keys or . Store your selection by pressing the key.
Set cycle **finish** by pressing the keys or . Store your selection by pressing the key.

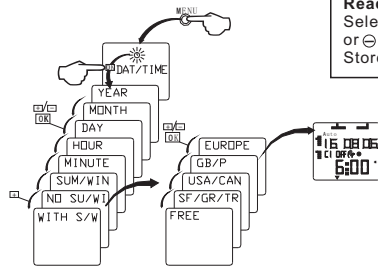
Setting/correcting the date and time

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** .



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: 230-240V~+6%-10%

Frequency: 50-60Hz

Own consumption: max. 7.5 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. 170 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.

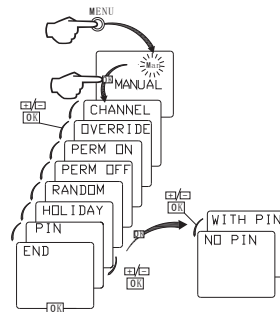
Selection **WITH PIN**

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 ⊕ or ⊖ . 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!

Dimension drawings

