Digital Multifunction Time Switch

EDT811/22

EDT822 EDT811

Features

- Standard housing 35 x 90 x 61mm in line with DIN 43880 - 2 TE
- Weekly, Pulse, Cyclic,Random & holiday Programming
- Switching function: ON - AUTO - OFF
- 1 Changeover & 2 Changeover Switch available
- Auto time error correction ±30 sec , weekly
- Running reserve for 3 years (in case of power failure)
- 22 programs per/day ,154 programs per/week
- Minimum switching interval: 1 second & 1 minute
- 1 Channel & 2 Channel circuits available
- Manual operation can be locked out
- Security Pin code lock
- LED operation display
- Cover can be swung open
- Cover can be secured
- Output: Relay 1c & 2c, 250V AC, 16A
- Rated operating voltage: 230V AC, 50/60Hz
- Mounting method: Wall mounting, DIN rail
- Dimesions(mm) : 86×36×66

Product types

Model numbers	Description	Operating voltage	Running reserve
EDT811	Digital weekly programming,1 Changeover , 1 channel	220-240VAC	3 years
EDT822	Digital weekly programming, 2 Changeover , 2 Channel	220-240VAC	3 years
ED8TT	Terminal cover and mounting plate for wall mounting		

Technical Data

Model number	EDT811	EDT822
Type	Standard DIN Rail mounting type	
Program cycle	Weekly, Pulse, Cyclic, Random & Holiday Programs	
Operating voltage	AC 220V 50/60HZ 85%~110%	
Frequency	50-60Hz	
Power consumption	4VA	7.5VA
Switching capacity		
Resistive load (cosF=1)	16A / 250VAC	16A / 250VAC
Inductive load (cosF=0,7)	10A / 250VAC	10A / 250VAC
Number of circuits	1 Channel	2 Channel
Number of circuits	1 relay contact outputs	2 relay contact outputs
Contact type	1 changeover contact	2 changeover contacts
Driving method	Quartz oscillation	
Memory capacity	22 programs / Day	22 programs / Day
Minimum switching interval	Weekly mode : 1 min & Pulse : 0 - 59 min 59 sec	Weekly mode : 1 min & Pulse : 0 - 59 min 59 sec
Manual switching	Override function	
Changeover, standard time/daylight saving time	Yes	
Time accuracy	±1 seconds/day (at 25°C)	
Running reserve	3 years for clock memory and program (lithium battery)	
Pulse function	Yes	Yes
Cyclic-Random-Holiday function	Yes	Yes
Applicable wire	Max. 2.5mm²	
Weight	100g	120g
Protection degree	Protection degree II when mounted properly	
	IP20 according to EN60529	
Pollution degree	3	
Summer / Winter Time settings	Yes	

OVERVIEW

Safety Information

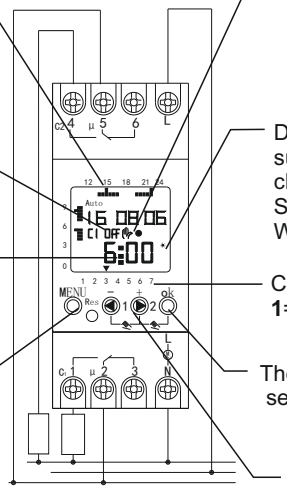
The connection and installation of electrical device must be performed by a skilled electrician only. Any intervention into or modifications to the appliance shall lead to the lapse of all warranty rights. Comply with your national regulations and all relevant safety stipulations

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



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

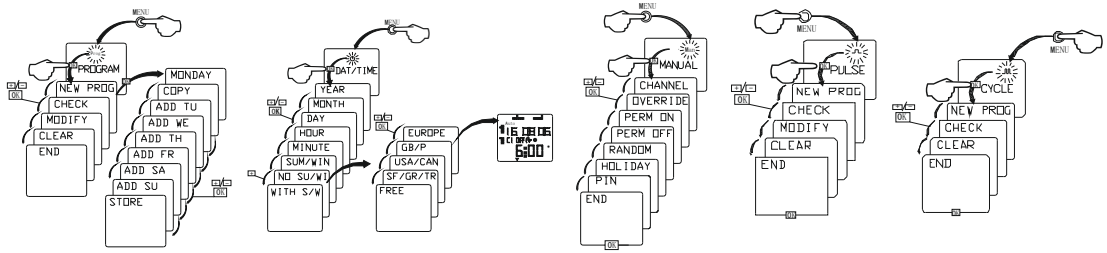
Displayed only when summer/winter time changeover is activated
Summer time
Winter time

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

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

Decision **No** mean continue

MENU MODES OVERVIEW



Technical Data

EDT 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)
EDT 822 1 XXX 120V +/−10% 50-60 Hz	Type 1 BSTU IEC/EN 60730-2-7	44 memory locations	AgSnO2	2300W	1000W

FIRST CONTACT

Basic instructions

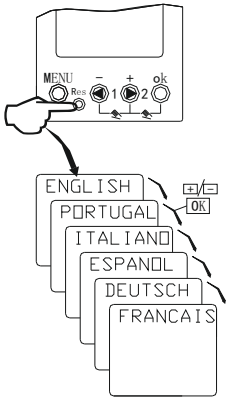
Info

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.



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.

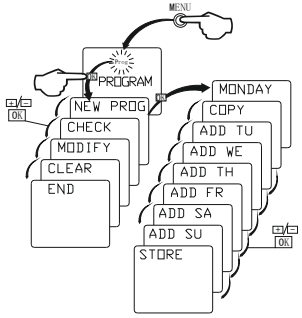
PROGRAMMING

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 excuted.

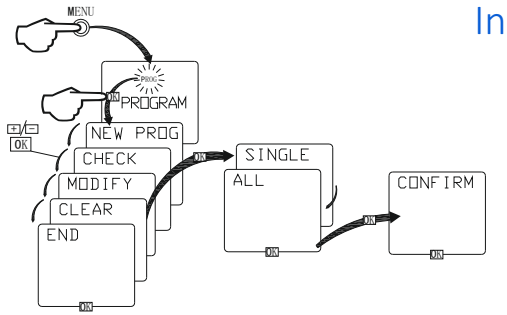


Example: Switching on the lighting of a sports hall on Mon, Tues, Fri. from 8.30h until 12h.

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 **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

DELETIONS

Individual deletions



OPERATING MODES

Override Permanent ON or OFF

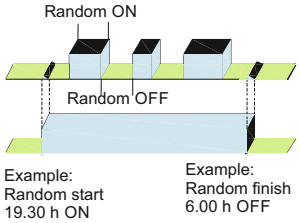
	Channel C1	Channel C2
Press the two Key for **approx. 1 s.**	Manual preselection: Press keys simultaneously **Channel C1** switches alternately ON orOFF. Symbol appears. Manual preselection is corrected again by the stored program.	Manual preselection: Press keys simultaneously **Channel C2** switches alternately ON orOFF. 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.		

RANDOM / HOLIDAY

Programming

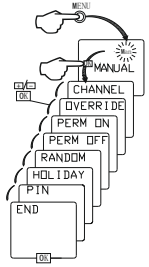
Effect of the random program:
The random program causes the timer to switch between programmed pairs of switches (ON and OFF). The random on and off times range between approx.10 mins. and 120 min.The random time always begins with OFF.

Symbol ⊠ flashes when the random program is effective.



Example:
Random start
19.30 h ON

Example:
Random finish
6.00 h 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 OK Key.
To cancel a function:
Select the function clear.
Store your selection by pressing OK.

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.

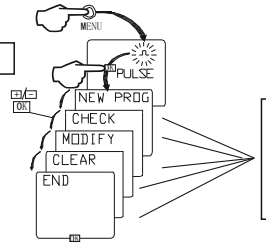
PULSE PROGRAM

Seconds / Pulse programming

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.

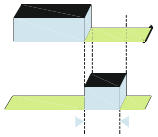
Symbol ⎍ flashes as long as the pulse program is active.



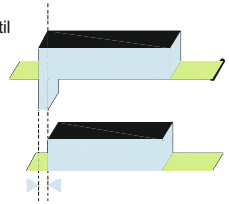
Always read the text display first of all. You will be provided with programming help. Confirm your selection by pressing the OK key.

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



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.

CYCLE PROGRAM

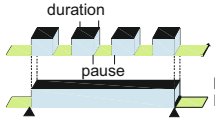
Cyclic programming

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.

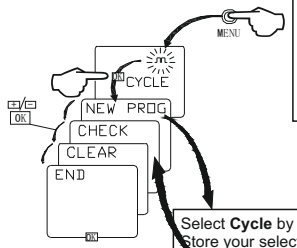
duration



Example cycle start:
Monday 7.30 h ON

Example cycle finish:
Friday 16.30 h OFF

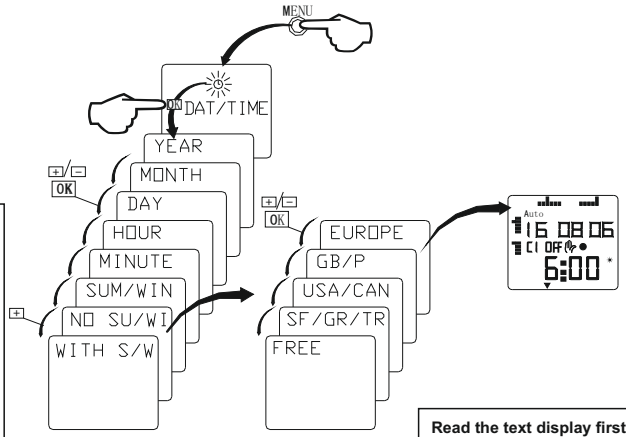
View the cycle times:
Possible in the menu Cycle only !
N.B.: If two cycle times are programmed in which the start and finish times overlap, it is always the cycle time that starts first that is executed.



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 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.

OVERVIEW



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.

PIN-CODE

Setting a security pin code

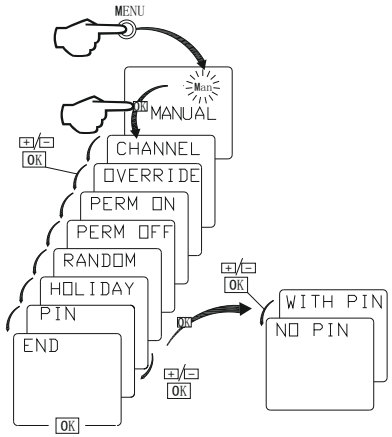
PIN

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.

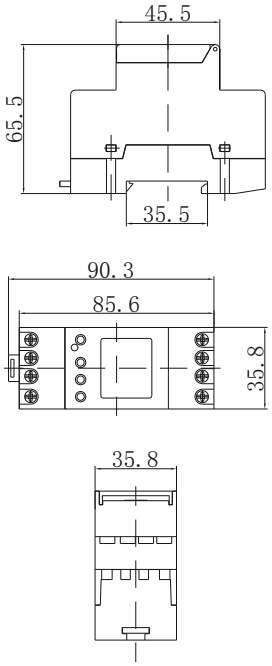
The device is locked 60 sec. after the last keystroke and can only be operated after the correct PIN code is entered.
Selection **WITHOUT PIN**
Select **WITHOUT PIN** using ⊕ or ⊖.
Confirm with the OK button.



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!

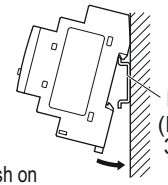
DIMENSION & MOUNTING



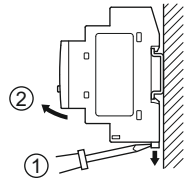
- DIN rail mounting

① Hook

② Push on



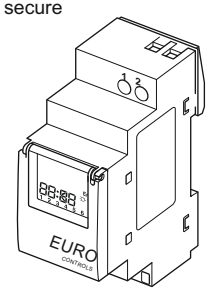
- Removal



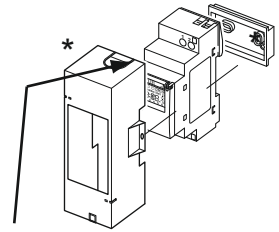
Pull down DIN rail attachment lever to release. Lift.

- Secure front cover

and secure

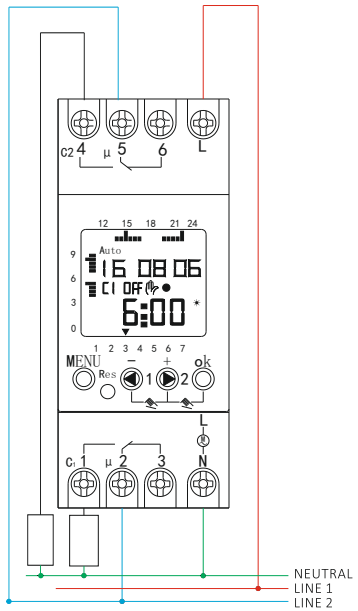


- *EDTTC
1 terminal cover, 1 mounting plate

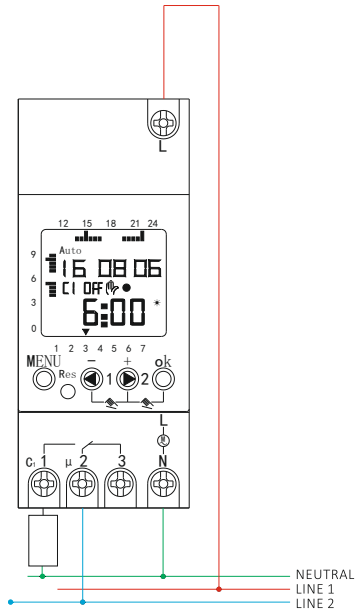


CAUTION: Minimize the wire hole to ensure class II construction.

WIRING DIAGRAM



EDT822



EDT811