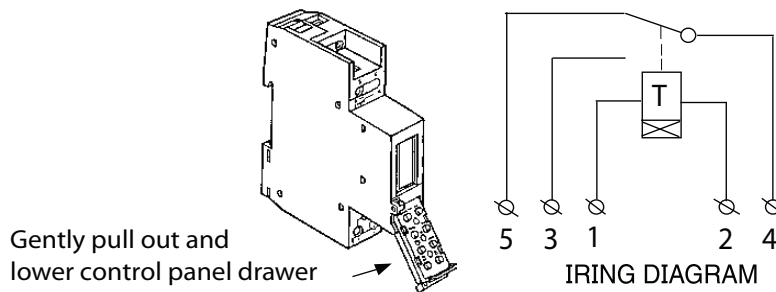




DIGITAL TIMER


Installation Instructions



Press Res-Key


'RE ' (reset) key can be pushed at any stage to delete all stored information.

Setting Current Time and Day


Press the  key and hold down.

Press 'Day' key repeatedly for day required.

Note: Day 1 is Monday...Day 7 is Sunday.

Press the  key and hold down.

Press 'h +' (hours) key repeatedly for the required time.

Press the  key and hold down.

Press 'm +' (minutes) key repeatedly for the required time.

1 press = 1 advance. To advance time quickly keep key depressed.

For easy daylight saving adjustment press $\pm 1h$.
(The symbol will also be displayed.)


Manual Operation


For switching the load press  and observe the display.

- Permanently ON.
- Permanently OFF.
- ON until turned OFF by the program.
- OFF until turned ON by the program.

Programming Switching Times

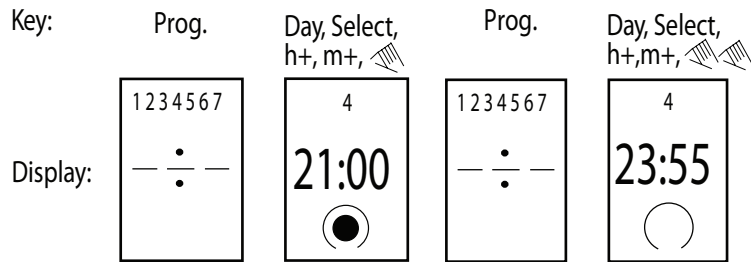
up to 42 operations can be stored.
 First check the correct day and time has been set.
 If incorrect refer to Setting Current Time and Day-.
 Press 'Prog' key once. The display will show days of the week. Time section blank.

- A. For operating day or days:
 All days of the week: Do not push any keys.
 Proceed to B.
 Any one or group of days: Press the **'select'** key and hold down. Push 'Day' key to delete non required days.
- B. To set operating time - press 'h+' and 'm+' repeatedly.
- C. To switch on or off at this time press  to show ON or OFF.
 Press 'Prog' for the next required switching operation - repeat A, B and C above.

Pressing the  key once stores the programmed data and returns the time switch to its current switching status.

Example:

Turn On Thursday at 9pm and OFF at Thursday 11:55pm.




Repeat as required for further switching operations.

Holiday Program

For convenience when you go on holidays, you can set up a simple operating program for that duration - up to 99 days. The holiday program has priority over the normal program. It will operate for the set duration and then revert to the normal program, or it can be operated continually without a pre-set limit.

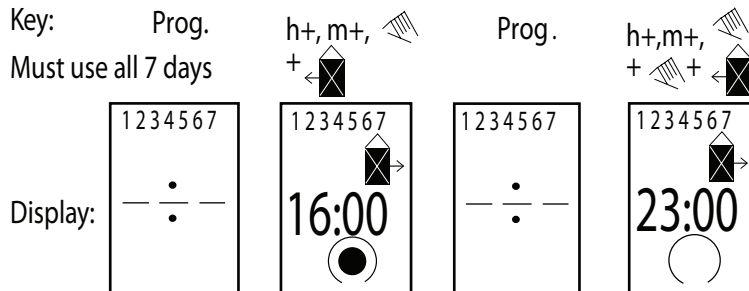
The start of your program can be immediate, or it can be pre-set up to 6 days in advance. For your convenience the holiday program can only involve switching times which will be the same on all 7 days of the week. **Not for individual days.** For more complex programming use the normal program.

Setting Switching Times for the Holiday Program

Switching times are entered in the same way as for program switching times, then the holiday key  is added.


Example:


Turn ON at 4pm and OFF at 11pm each day of the week.



Repeat as required for further switching operations.

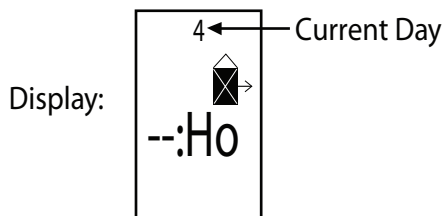
Setting Start and Finish Times of the Holiday Program


The  key must be pressed to return the time switch to the current operating state before programming the start and finish times of the holiday program.

If no switching times have been programmed for the holiday program, the holiday symbol starts flashing when the  key is pressed. Set switching time as previously outlined.

Starting Time

Press  once, the following display appears:



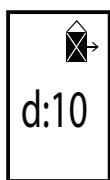
The cursor for the current day of the week starts flashing. If you press the  key at this point, the holiday program is set for continuous daily operation.


If you wish the holiday program to start at a later date than the current day (up to 6 days in advance), use the 'Day' key to select the required day of the week.

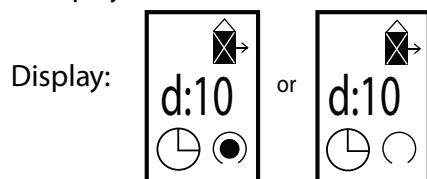
Finishing Time

To set the finishing time enter the duration of the holiday in days by pressing 'elect' key repeatedly. If the 'elect' key is held down for longer than 2 seconds, the fast-forward-mode is activated (scrolling) e.g. 10 days.

Display: for 10 days setting




Pressing the  key stores the programmed information. At the same time, the current switching status is displayed in accordance with the holiday program. The holiday program is now set. The display will show current time and day until the starting day is reached. Once reached the selected duration status is displayed.




The preselected duration of the holiday (10 days) is counted down from day to day (eg. d10, d9, d8) after which, the current time reappears on the display. The switching times for the holiday program are retained, but no longer active.

Premature Termination or Interruption of the Holiday Program

If the holiday program has already commenced,

press the  key once. The time switch returns to its current switching status.


If the holiday program has not yet started, press the  key twice. The preprogrammed duration of the holiday appears first on the display, followed by the current switching status.


Random Switching

A useful security feature, random switching time ON and OFF are between the following values - 5 minutes minimum, 60 minutes maximum. ON times: 5 minutes minimum, 30 minutes maximum. OFF times.

You can program this to operate continually or only for a particular time span in the day.

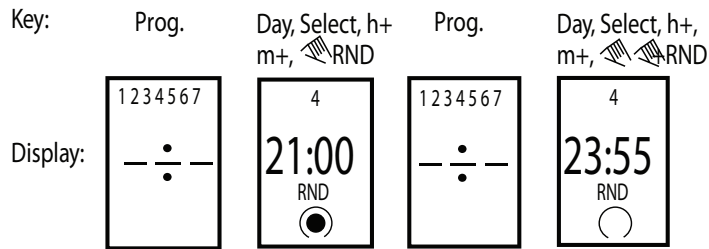
Random Switching Continually

To select the random mode, hold  and press 'RND' .


To switch off the random mode and return to normal automatic program, press  5 times.

Random Switching During Time Span

Random operation between ON and OFF times assigned by you. Example: Random operation mode turns ON Thursday at 9pm and OFF Thursday at 11:55pm.



The Random switching will then occur only between these set times.

Pressing the  key stores the programmed data and returns the time switch to its current switching status.

Editing and Deleting Switching Commands

Editing Switching Commands

Select the programmed switching time in question by pressing the 'Prog' key repeatedly, then alter the stored data. Save again by pressing the 'Prog' key once.

Deleting Switching Commands

Select the programmed switching time in question by pressing the 'Prog' key repeatedly, then set the hours and minutes to -- by pressing the 'h+' and 'm+' key repeatedly. Press the 'Prog' key and hold down for 3 seconds to delete switching command. The other stored switching commands are advanced automatically so that there are no empty lines.

Technical Specifications 4TCD

Switch Contacts	1 change over contact 1N/O 1N/C
Operating Voltage	240V a.c. [+10%/-20%]
a.c. Switching Capacity	
Resistive Load	16A, 240V a.c.
Inductive Load, cos $\Phi = 0.6$	2.5A, 240V a.c.
Motor Rating	M40
d.c. Switching Capacity	
24V d.c.	800mA
60V d.c.	300mA
220V d.c.	150mA
Switching Operation	Floating (not connected internally)
Ambient Temp. Range	-10°C to +55°C
Accuracy	Typ. 2.5 sec/day at +20°C
Back up NC Battery	
Running Reserve	150h
Charging Time	140h
Memory Locations	42
Shortest Switching time	1 minute
Holiday Program	99 days max.
Daylight Saving Key	± 1 h
Random Switching	Continuous or programmable start/stop time and day
Reset	Clear all information
Manual Switching	Automatic/perm. ON/perm. OFF/ON until prog OFF/OFF until prog. ON
Power Consumption	5 VA
Terminals Capacity	1 x 4mm ² cable or 2 x 2.5mm ² cables.
Material Type	Valox 865/GR 8233
Panel Cut-out	46mm x 18.5mm

Note: Time loss can be experienced due to RFI. It is advisable to locate timers as far from contactors as possible and install voltage suppression devices.