

# Low voltage time clock & Tradesman's Timer Unit Ref. Ktrade1.

This timer unit is fully programmed for auto-change summer/winter time change according to MEZ, GB, and USA. Or freely programmed rule, can alternatively been switch off.

Functions.

Single channel digital time module with clean changeover 5amp on board relay.

28 memory locations with free block formation with separate programming of switching ON and Off times.

21 memory locations with free block formation with separate programming of switching ON and Off times and pulse times. Pulse duration adjustable from 1-59 seconds.

10 memory locations, for programming of cycles. Pulse and break times adjustable from 1 second to 99 minutes and 59 seconds.

Combination of cycles, pulse and switching times possible.

Easy handling by integrated text line in the LCD display with the use of only 4 keys.

Switching override for manual switching ON/OFF, with out influencing the automatic program.

Switching status correction by review after programming or modifying the time or switching time.

Failure control for switching off the clock output in case of supply failure, leaving the display running on standby battery supply which is indicated by the minute /second pulse changing from 2 dots to 3 dots.

There is also a red led indication supply healthy.

Date related holiday switching (Off) for interruption of the automatic program.

Display Lighting.

Has LED, back light display for when the unit is fitted in dark area.

Operating Voltage. 12 to 18v Ac or Dc.

Power consumption 12vdc 25ma 56ma quiescent 18v dc 97ma 145ma quiescent

Accuracy < 1sec/day at 20dec C. Time basis Quartz 32768hz. Shortest switching time, 1minute.

Reserve battery. Lithium 230ma 3v fixed with battery enable jumper plug. Battery life When running on standby display only 9000 hrs (one year)

Mains healthy and relay activated led indication. (Supply Red, Relay Green.)

5amps @ 24vt 8.Normal open, 7Commom, 9 Normal closed. Relay contacts.

1 and 2 ac, 1+2-Dc. Voltage supply.

Control functions inputs. 3,4,5. Separate Data Sheet.

Short din rail supplied. Fixing.

90mm length x 55mm height x 60mmdepth Size.



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### First contact

#### For programming, viewing, amending or Info deleting First of all read the text display. The timer is delivered in so-called sleep mode. To Menu selection Select by pressing the MENU Prog key. Increase the power reserve the switch clock changes to Confirm by pressing $\overline{\mathbb{QK}}$ . By pressing the $\Phi$ key select the desired menu the sleep mode after approx. 15 minutes. A RES e.g. New, View, Amend or Delete. To activate without a service voltage Confirm your selection by pressing OK. Set or change: by pressing ① or 〇. Briefly press the MENU key. Store by presssing (OK) . To display the switching times: Activate with mains voltage If the timeswitch is already pre-programmed with In the menu View, press the (OK) key several times. the actual time, the weekday, and the changeover setting for Summer / Winter time, the actual time The decision Yes, confirms the and status display appears after selection of the ENGLISH selection or programming. National language. If the timer is not pre-programmed The decision No, means First select your National language and then enter continue. the actual date and time. Set or amend by pressing the @ or @ keys. Activate the clock, select the national language According PORTLICAL By pressing the ⊕ or ⊖ key select your national to version language. According Store your selection by pressing the OK key. to version OK) RESET (only in case of 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.

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Formation of day groups

If the same switching times are active on several days of the week, they occupy Just one memory location, e.g. Monday – Friday 7.30 hrs ON. 42 memory locations are available.

#### Group formation

In answer to the text question Copy, decide by pressing the OED, 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.

decide by ogram veek. Ing. pulse OK PROGRAM COPY ADD TU ADD INE MODIFY CLEAR END STORE

When programming an ON and OFF switching time, e.g. Monday 9 AM, a switch-off at 9 AM always has priority.

### Program review

Following programming the timer makes a program review back to midnight and then sets the correct switching status.

### Example

**Example:** Switching on the lighting of a sports hall on Mon., Tues., Thurs., Fri. from 7.30h until 12h.

### Programming example:

Select **PROG** by pressing the **MEW** key.

Store your selection by pressing the **OK** key.

Select **NEW** by pressing the **O** or **O** .

Store your selection by pressing the **OK** key.

Select **ON** by pressing **O** or **O** .

Store your selection by pressing **OK** .

Set the hours and minutes by pressing the **O** 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 <sup>(1)</sup> key.

Finally select the **STORE** display by pressing  $\odot$  . Store your selection by pressing  $\overline{\mathbb{Q}\mathbb{K}}$  .



## Setting/ correcting the date and time summer/winter time

### Automatic summer/winter time correction

According to version the timer is preprogrammed ex-works complete with the change-over. Should you switch off the automatic facility cr wish to alter it, first of all read the text display.

Select by pressing ⊕ or ⊙.

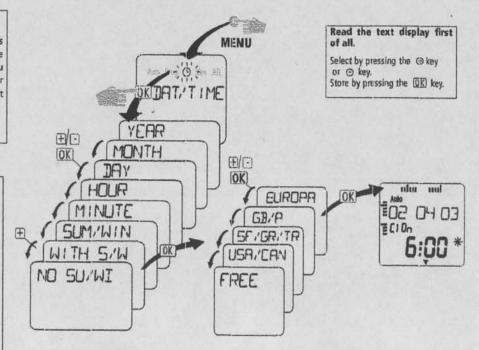
Free Prog to select sum/vin changeover other than EJR-GB-USA. Select sum/vin, and after with sum/vin. Store with [QK].

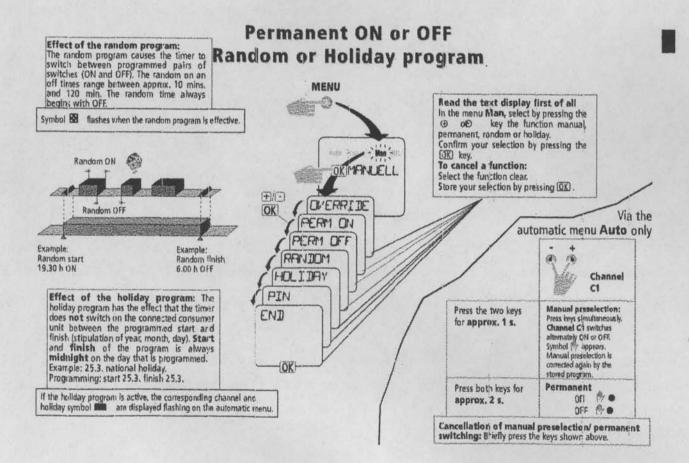
Select rule FREE – with buttons ① or ② .

Input month and weeks for sum/vin. Store with [QK].

E.g. Month = March
Week 4 = fourth week
Week 5 = last week in month
Note: In sum/win free Prog the time change is set automatically at sunday 2 AM.

Time change is not available.





### PIN

The device can be locked against unauthorized use with a 4 digit code number.

Select the Manual menu using  $\oplus$  oder  $\odot$  . Confirm with the (II) button.

### Select on WITH PIN

Select WITH PIN using @ oder @. Confirm with the CED button, Make note of any desired 4digits number.

Select the first digit of your 4 digit code using o or o.

Confirm the entered digit with (o).

Select further digits as described using o or o.

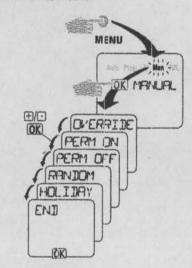
Confirm each selected digit with the (o) button.

The device is locked 90 sec, after the last keystroke and can only be operated after the correct PIN code is entered.

### Select on WITHOUT PIN

Select WITHOUT PIN using ⊕ oder ⊙. Confirm with the (IK) button.

### **PIN-Code**



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!

PETER WARBURTON PTY. LIMITED, 64 Brittania Road, Castle Hill NSW 2154, Australia, Tel.: (02) 9899 2908, Fax: (02) 9899 4436

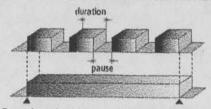
(B) TIMEGUARD LTD., Victory Park, 400 Edgware Road, London NW2 6ND Tel. 0208/4508944, Fax 0208/4525143

### Effect of the cycle program:

The clocking and pause times can be set separately. The settable times are max. 99 mirutes 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.

16 memory locations are available to you.

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



Example cycle start: Monday 7.30 h ON

Example cycle finish: Friday 16.30 h OFF

EV OK

NEW PROG

CHECK

END

Viewing 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.

Example: Cycle time 1, programmed from: No to Thu

Cycle time 2, programmed from: Tue to Fri.

Only cycle time 1 is effective, cycle time 2 is not accepted.

Cycle program

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

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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 injurte are not admissible without additional EMC interference measures.

Select by pressing the WEND key Cycle.

Store your selection by pressing the LOED key.

Set cycle start by pressing the keys ③ or ③ .

Store your selection by pressing the LOED key.

Set cycle duration (Min./sec.) by pressing the keys ④ or ⑤ .

Store your selection by pressing the LOED key.

Set cycle pause (Min./sec.) by pressing the keys ⑤ or ⑤ .

Store your selection by pressing the LOED key.

Set cycle finish by pressing the keys ⑤ or ⑥ .

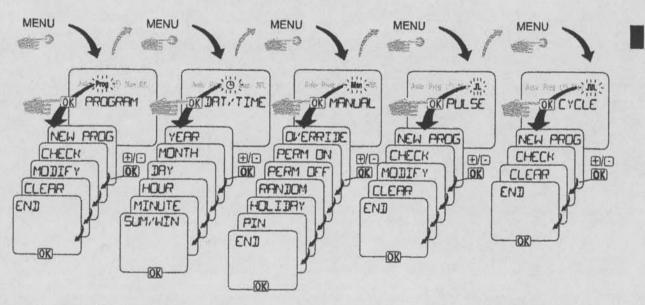
Store your selection by pressing the keys ⑥ or ⑥ .

## Pulse program

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

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

Symbol IL flashes as long as the pulse program is active. Example: Switch off at 17.30 h 15 s Switch-off delay Program: 7.00 until 17.30 h ⊕\⊡ ok and NEW PROG pulse at 17.30 h pulse ON, duration 15 s MODIFY Always read the text display first of CLEAR all. You will be provided with Switch-on delay programming help. Confirm your selection by pressing the [28] key. END Example: Switch-on at 7.00 h 15 Program: To switch on from 7,00 until 17,30 h info Viewing the pulse times Only possible in the menu PULSE. and tiay 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., Wed., Fri., pulse time 7.30 h. 32 memory locations are available for pulse, OFF at 7.00 h p. pulse programming.



### **Technical Data**

