## 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 18 v Ac or Dc.

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

Time basis Quartz 32768hz. Accuracy _<_1sec/day at 20 dec C.
Shortest switching time, 1 minute.
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.)
Relay contacts. 5amps @ 24vt 8.Normal open, 7Commom, 9 Normal closed. Voltage supply. $\quad 1$ and $2 \mathrm{ac}, 1+2-\mathrm{Dc}$.
Control functions inputs. 3,4,5. Separate Data Sheet.
Fixing. Short din rail supplied.
Size. 90 mm length $\times 55 \mathrm{~mm}$ height $\times 60 \mathrm{mmdepth}$

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First contact

## Info

The timer is delivered in so-called sleep mode. To Increase the power reserve the switch dock changes to the sleep mode after approx. 15 minutes.

## To activate without a service voltage

 Briefly press the MEND 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 $\Theta$ or $\odot$ key select your national language.
Store your selection by pressing the OKJ key


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



## Example

Example：Switching on the lighting of a sports hall on Mon．，Tues．，Thurs．，Fri．from 7．30h until 12 h ． Programming example：
Select PROG by pressing the wey key． Store your selection by pressing the［OX］key． Select NEW by pressing the $\oplus$ or $\odot$
Store your selection by pressing the（DXX）key． Select ON by pressing © $\oplus$ or $\Theta$
Store your selection by pressing（\％XK）． Set the hours and minutes by pressing the $\oplus$ or $\bigcirc$ key．
Store selection by pressing（ QR ． To store one day of the week anly： Select weekday by pressing $\oplus$ or $\odot$ ． Select store by pressing $(1)$
Store by pressing（QX）
To copy to other days of the week： store COPY by pressing（OK）．
Select weekday by pressing $\oplus$ or $\odot$ Store by pressing［DES］．
To leave out a day of the week，skip by pressing the ${ }^{\circ}$ key．
Finally select the STORE display by pressing © ． Store your selection by pressing（⿴囗玉心）

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

Automatic summer/vinter time
correction
According to version the timer is
preprogrammed ex-works complete
with the change-over. Should you
switch off the automatic facility er
wish to alter it, first of al read the tent
display.
Select by pressing $\oplus$ or $\Theta$.

Free Prog to select sump/ein changeover other than EUR-GB-USA. Select sum/vin, and after with sumivin. Store with (0]B) Select rule FREE - with buttons $\odot$ or $\Theta$.
Input month and weeks for sumhwin. 5 tore with [ISR]. Egg. Month $:$ March
Week $4=$ fourth week
Week $5=$ last week in month Note: In suinhwin free Prog the time change is set automatically at sunday 2 AM. Time change is not available.



PIN-Code

## PIN

The divice can be luded against unauthorized use with a 4 digit code number.
Select the Manual menu using ©oder © .
Confirm with the [iik) button.

## Select on WITH PIII

## elect WITH PIN using $\oplus$ oder $\ominus$

Confirm with the (CX button, Make note of any desired 4 digits number,
Select the first digit of your 4 digit code using $\oplus$ or $\odot$ Confirm the entereo digit with (0<<).
Select further digits as described using $\oplus$ or $Q$ Confirm each selecied digit with the (0x) button.

The device is lockedi 90 sec . atter the last keystroke and can only be operated after the correat PIN code is entered.

## Select on WITHOUT PIN

Select WITHOUT PIN using © oder $\odot$, Confirm with the []ix) bution.

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(ii8) TIMEGUARD LTD, Victory Park, 400 Edgware Road, London NWZ 6ND
Tel. 02C8/4508944, Fax 0208/4525143
 Monday $7,30 \mathrm{~h} \mathrm{ON}$

Example cyde finish: ltiday 16.30 h OFF

## Cycle program

## Cyclically recurring time functions within the scope of a timer,

 e.g. slow flashing indicator, water treatnent,advertisement lighting


## Viewing the cycle times: <br> 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 fime that starts first that is executed.
Example: Cycle tiree 1, progranmed from: Mo to Thu eycle tine $\mathbf{2}$, programmed from: Tie to Fri.
Only cycle time $\mathbf{1}$ is effective, cycle time $\mathbf{2}$ is not accepted.

## Pulse program




## Technical Data

| TR $6110 \mathbf{x x x}$ <br> 230V +1 10\% $50-60 \mathrm{~Hz}$ <br> 240V + $+6 \%-14 \% 50-60 \mathrm{~Hz}$ | 16(10)A 250 V min. 100 mA 24 V AC/ DC | Degree of protection <br> II EN 60730 <br> IP 20 EN 60529 |  | $\begin{aligned} & 9 \times 7 \mathrm{~W} \\ & 7 \times 11 \mathrm{~W} \\ & 7 \times 16 \mathrm{~W} \\ & 7 \times 20 \mathrm{~W} \\ & 7 \times 23 \mathrm{~W} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TR $6111_{\text {xxx }}$ <br> 120v- +1. 10\% $50-60 \mathrm{~Hz}$ | Type 1 BSTU IECIEN 60730-2-7 | 42 memory $\begin{aligned} & \text { locations }\end{aligned}$ |  | 2300W |  |

