# TIME SWITCHES AND MODULAR CONTROL DEVICES 



EASILY PROGRAMMABLE IMPROVED PRODUCTIVITY AND ENERGY SAVINGS


CATALOGUE
PAGES
INSIDE

## DIGITAL BLUETOOTH TIME SWITCH DAILY, WEEKLY, YEARLY, ASTRO

(No need to install a photoelectric cell)

## ALPHAREX³ THE FULL PRODUCT RANGE

THE ALPHAREX ${ }^{3}$ FAMILY OF PROGRAMMABLE DIGITAL TIME SWITCHES SAVES ENERGY, REDUCES ELECTRICAL COSTS AND TIME WITH THE EASE OF INSTALLATION.

One unique software and data key for all digital time switches, for quick and easy programming and transferring programs to other time switches, as well as creating backup copies and securing data in distribution boards for future reference.

Identical function buttons and display for all time switches. Once you have mastered one, you can operate any model, regardless of the time switch or application.

Simple programming precise to the second with digital clock precision $\pm 0.2$ sec per day.


DIGITAL BLUETOOTH
TIME SWITCH

- Directly programmable with APP via Bluetooth
- 1 or 2 channel option
- Daily, Weekly, Yearly programs
- Available in 1 or 2 channels
- 2 modules wide
- Daily, Weekly, Yearly program options
- Native Bluetooth: Directly program from smartphone with no need to touch the timer. No accessories required
- Data can be exported to/imported from the time within the Bluetooth time switch app
- Passwords, location, and other settings can also be controlled via the app
- Data can be copied from one timer to another even on a different project
- High precision timer ( 0.1 sec )
- 2 Din Clip at the back for ease of installation
- 5 year reserve battery life
- Ability to program directly from the time

Applications:


ALPHAREX ${ }^{3}$ ASTR ASTRONOMICAL TIME SWITCHES

- Switches according to astronomical time or operates as a programmable weekly time switch
- 1 output with 56 programs
- 2 output with 28 programs per channel

PROGRAMMABLE
WEEKLY TIME
SWITCHES

- 1 channel with 56 programs
- 2 channels with 28 programs per channel




## J|l|ll

## $\square$

Commercial and Residential
Ideal for school bells, pool pumps, air cons,
garden lighting and water systems.


## MICROREX ANALOGUE TIME SWITCH

THE TRUSTED MICROREX analogue time switches OFFER EASY OPERATION AND PROGRAMMING BY SETTING the Analogue switching DIAL FOR SIMPLE APPLICATIONS.

Manufactured by Legrand in Germany

## 00 0 0 0 0 0 0 0

MICROREX
DAILY/WEEKLY TIME SWITCH
1 MODULE
Daily time switch:
th synchronous or quartz motor
Weekly time switch:
With synchronous or quartz motor

- 15 min switching dial segment (daily)
- $\pm 5$ min accuracy (daily)
- 2 h min switching dial segment (weekly)
- $\pm 30 \mathrm{~min}$ accuracy (weekly)
- With and without 100 h battery reserve


MICROREX
DAILY/WEEKLY TIME SWITCH
3 MODULE
Daily time switch:
With synchronous or quartz moto
Weekly time switch:
With synchronous or quartz motor

- 15 min switching dial segment (daily)
- $\pm 5$ min accuracy (daily)
- 2 h min switching dial segment (weekly)
$\pm 30$ min accuracy (weekly)
- With and without 100 h battery reserve


## ADVANTAGES OF WORIKING WITH THE MICROREX SERIES

- Easy installation and set up
- Precision clockwork: output (horizontal)
- With and without removable

100h battery reserve
$\pm 0.2$ sec per day clock precision

- Changeover contact as switch
- Normally open contact (vertical


## 8

Ll legrand 412795 MicroRex QW31 M. $230 \mathrm{~V} 50 / 60 \mathrm{~Hz}-10 \mathrm{~T}$
$16 \mathrm{~A} 250 \mathrm{~V} \sim \mu \cos \varphi=1$ - R100h


AlphaRex ${ }^{3}$ digital time switches with bluetooth

## Weekly，yearly and astronomical time switches



All in 1 app


Daily，weekly and yearly
programming


Advanced configuration


Upload data or import
from existing timers

回回
Scan the QR code
for more information


AlphaRex ${ }^{3}$ digital time switches with bluetooth
Weekly，yearly and astronomical time switches

| Type | AlphaRex ${ }^{\text {BLE }}$ |
| :---: | :---: |
| Cat．no． | $412724 / 412726$ |
| Nominal voltage | 230 V |
|  | 50／60 Hz |
| Relay outputs | 2 changeover contacts 16A $250 \mathrm{~V} \sim \mu \cos \varphi=1$ |
| Accuracy | $\sim 0,1$ s／day |
| Wire cross－sections |  |
| Programs | 56 |
| Local coordinates | Resolution 1\％ 11 in EXPERT－Mode |
| Battery reserves | 5 years |
| Storage temperature | $-20^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |
| Operating temperature | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ |
| Transmission frequency | 2400MHz．．．248，5MHz |
| max．transmission power | 1.58 mw |
| Power consumption | ca．1，5W |

－Connection diagram
412726

－Connection diagram

$\begin{array}{lll}\text { Operating principle：Typ 1．B．S．T．} & \text { Degree of contamination：} 2 \\ \text { IEC／EN } 60730-1, \text { IECIEN } 60730-2-7 & \text { Switch output，potential－free }\end{array}$ Montage：in distribution panel，$\quad \begin{aligned} & \text { Switch output，potential－free } \\ & \text { Rated impulse voltage：} 4 \mathrm{kV}\end{aligned}$

| lection table |  |  | Hardware |  |  |  |  |  |  |  | Software |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | Cat．No | 흘 高 気 岂 | 产 | 高 | $\begin{aligned} & \frac{\overrightarrow{2}}{\frac{2}{2}} \\ & \hline \end{aligned}$ | 戓 |  |  |  |  | $\frac{\ddot{\partial}}{\underline{y}}$ | 䓂 | 㐫 |
| AlphaRex ${ }^{\text {b }}$ Digital Time Switch 1 Channel Weekly Astro 230V Bluetooth | 412723 | Alpha ${ }^{3}$ | 1 | 2 | yes | 4 | v | yes | 1 s | yes | $\times$ |  |  |
| AlphaRex ${ }^{3}$ Digital Time Switch 2 Channel Weekly Astro 230V Bluetooth | 412724 | Alpha ${ }^{3}$ | 2 | 2 | yes | 4 | V | no | 1s | yes | $\times$ |  |  |
| AlphaRex ${ }^{\text {B }}$ Digital Time Switch 1 Channel Yearly Astro 230V Bluetooth | 412725 | Alpha ${ }^{3}$ | 1 | 2 | yes | 4 | 230 V | yes | 1s | yes | $\times$ |  | $\times$ |
| AlphaRex ${ }^{3}$ Digital Time Switch 2 Channel Yearly Astro 230V Bluetooth | 412726 | Alpha ${ }^{3}$ | 2 | 2 | yes | 4 | V | no | 1 s | yes |  |  |  |



412631

AlphaRex ${ }^{3}$ digital time switches Astronomical time switches


412657
Pack Cat Nos AlphaRex ${ }^{3}$ Astro

- 5 -yoar clock working reserve
- Controlled directly by the distribution board, no separate light sensor required
For switching on/ofl lights and othe For switch hing on/off lights and other electric
devices according to the rising/setting of the
Sunction for creating switching programs in which the devices are switched according to
astronomical time and /or fixed preset tines astronomical time and//or fixed preset times
Daily astronomical calculation of the sunnise/ Daily astronomical calculation of the suntise/
sunset times based on the entered location or location coordinates
Offset for sunrise and
be adjusted up to $\pm 120$
differentials are set separately for sunrise and
Sunset
- Quick and easy programming due to the
option to select day blocks; day blocks cat option to select day blocks; day blocks can
be individually set or selected from the blocks Mon-Sun, Mon-rii or Sat-Sun
Switch times visible
Switch times visible in weekly overview on
display
display
- With the following additional functions for
added convenience: added convenience
- Random function

Operating heours counter, counting range of
$\times \mathrm{p}$ to 65.535 h
Control innut (1-channel time switch, cat. no.: 4122544 , switct-off delay can be set
from 0 st 23 h 59 min 59 s - 1 h test

- PIN code
- PIN code input lock

Expert mode for additional functions:
Cycle function, switch-on time can be se
between 1 sand 1 5 59 min 59 s - Control input "extra" ( 1 -channel time switch, cat. no.: 412654 )

- Mains synchronous operation can be set - Mackight

412654
phaRex ${ }^{3}$ D21 Astro, 1 channel

- Power supply $230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$
With control input

1 Output contact, 250 V a.c. $16 \mathrm{~A} \cos \varphi=1$
5hor programs
Shortest switching step: 1 s
412657 AlphaRex ${ }^{3}$ D22 Astro, 2 channel
2 Output contact, 250 V a.c. $16 \mathrm{~A} \cos \varphi=1$ 56 programs (28 per channe)

AlphaRex ${ }^{3}$ digital time switches Yearly time switches


Pack Cat. Nos Programming accessories
412872 Data key
Import switching programs into the time switch,
to do so select the "READ KEY" function on the time switch. Transfer switching programs to the key using the
"WRITE KEY" time switch function, this allows you "WRIE KEY time switch function, this allows you
to quickly and easily transfer porga,ms to other
time switches and/or to create backup copies

42873 PC adapter for USB port

- Can be used to create, save and transfer

Can be used to create, saze and transfer
multi-program time swithenes, Cat. No. $31 / 41 / 54 / 57$
and
Data is transferred to the program transfer key
Cat. No. 412872 , using the data loader connecte
oo. he USB port of the PC
nd transter key Winde © CD-ROM, data loader


Selection table



MicroRex Analogue time switches Daily and weekly time switches


Programmed via captive segment
1-module device: min 1 segment
1--module device: min. 1 segment
3-modulu device: min. 2 segments
Power supply: 230 V a.c. - $50 / 60 \mathrm{~Hz}$
3 -position override swith "ON-AUTO-OFF" on front pane Manual changeover to summer/winter time

Pack

> Cat. No. Daily programme
> $\begin{aligned} & 1 \text { segment }=15 \text { minutes } \\ & \text { Accuracy: } \pm 5 \text { minutes }\end{aligned}$
> Vertical dial
> $\begin{aligned} & \text { Minimum switching time: } 15 \text { minutes } \\ & \text { N/O contact }\end{aligned}$
> N/O contact
> 412790 With 100h battery reserve Horizontal dial
> $\begin{aligned} & \text { Minimum switching time: } 15 \text { minutes } \\ & \text { Changeover switch }\end{aligned}$
> Changeover switch
> 412812 Without battery reserve
> 412813 With 100 battery reserve
> Weekly programme
> $\begin{aligned} & 1 \text { segment }=2 \text { hours } \\ & \text { Accuracy: } \pm 30 \text { minutes }\end{aligned}$
> Vertical dial
> $\begin{aligned} & \text { Minimum switching time: } 2 \text { hour } \\ & \text { N/O contact }\end{aligned}$
> 2794 With 100h battery reserve
> of modulues Horizontal dial
Minimum switching time: 4 hour
Changeover switch
412795 With 100 h battery reserve
3

Programmable time switches Analogue and digital wiring

## $\square$ Diagrams <br> 


$+{ }^{+} \quad$ Scan the QR code
for more information



## Dimension

Cat.No 64991


Cat.No 049756


## Technical Characteristics

## Ana

Conform to EN 50022, EN 55014-1, EN 55014-2, IEC 60730-1,
For special applications with heavy loads like controlling

- the lighting of commercial boards / sign boards
- water heaters
- air conditioners
- hydrochlorinators
- street lighting
- blowers
- pool heaters
electric fences
-filters, pumps and conveyers

CX ${ }^{3}$ modular contactors with handle from 16A to 63A


Conform to IECIEN 61095

| Pack | Cat. No. | Power contactors with 24 V a.c. coil and handle |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Manual override for test and repair function, carried out via the handle Permanent "ON" or "OFF" without automatic reset 2 pole-250V a.c. |  |  |  |
|  |  | 1 max | Connection | Type of contact | Number |
| 1 | 412514 | 25A | d d | $2 \mathrm{~N} / \mathrm{O}$ | 1 |
| 1 | 412515 | 40A | -- -24 | $2 \mathrm{~N} / \mathrm{O}$ | 2 |
| 1 | 412516 | 63A |  | $2 \mathrm{~N} / \mathrm{O}$ | 2 |
|  |  | 4 pole - 400 V a.c. |  |  |  |
| 1 | 412517 | 25A | $-^{d}-^{d} \int^{d}-\frac{d}{-24 v}$ | $4 \mathrm{~N} / \mathrm{O}$ | 2 |
| 1 | 412518 | 40A |  | $4 \mathrm{~N} / \mathrm{O}$ | 3 |
| 1 | 412519 | 63A |  | $4 \mathrm{~N} / \mathrm{O}$ | 3 |


| Cat. No. | Power contactors with 230V a.c. coil and handle |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Manual override for test and repair function, carried out via the handle <br> Permanent "ON" or "OFF" without automatic closing <br> of the contactor |  |  |  |
|  | 2 pole - 250 V a.c. |  |  |  |
|  | 1 max | Connection | Type of contact | Number of modules |
| 412544 | 25A | d | $2 \mathrm{~N} / \mathrm{O}$ | 1 |
| 412545 | 40A | ---2300 | $2 \mathrm{~N} / \mathrm{O}$ | 2 |
| 412547 | 63A |  | $2 \mathrm{~N} / \mathrm{O}$ | 2 |
| 412548 | 63A | - | $2 \mathrm{~N} / \mathrm{C}$ | 2 |
|  | 3 pole - 400V a.c. |  |  |  |
| 412549 | 40A | d d d | $3 \mathrm{~N} / \mathrm{O}$ | 3 |
| 412550 | 63A | $-\sqrt{-2300}$ | $3 \mathrm{~N} / \mathrm{O}$ | 3 |
|  | 4 pole - 400V a.c. |  |  |  |
| 412551 | 25A | d d d d | $4 \mathrm{~N} / \mathrm{O}$ | 2 |
| 412553 | 40A | ---2300 | $4 \mathrm{~N} / \mathrm{O}$ | 3 |
| 412556 | 63A |  | $4 \mathrm{~N} / \mathrm{O}$ | 3 |
| 412557 | 63A |  | $4 \mathrm{~N} / \mathrm{C}$ | 3 |
|  |  | $77-7-2300$ |  |  |

Low noise power contactors with 230 V a.c. coil and handle
2 pole-250V a.c.

412559


## CX ${ }^{3}$ modular contactors without handle

 from 16A to 63A


Conform to IEC/EN 61095
Space for power supply b
power supply busbar on top (up to 25a)


## Power contactors CX ${ }^{3}$



## Delay Timers

## 12 to 230 V a.c. and d.c.

8



For controlling the switching ON or OFF of a circuit (lighting, ventilation, automation, signalling) in operation for a specific time from 0.1 sec to 100 hrs Supply voltage: 12 to 230 V a.c. $(50 / 60 \mathrm{~Hz})$ and =-
Output: $8 \mathrm{~A}-250 \mathrm{~V}$ a.c. $-\mu \cos \varphi=1$ per inverter contact
Cal. No. Delay timers ON delay
004740 Delays load switch-on (alarm, lighting,

The time period starts when the relay is
switched ON. At the end of the time switched ON. At the end of the time
period (T), the load is switched ON OFF delay
04741 Delays load switch-off (ventilation, etc.)

The time period ( $T$ ) starts with the
opening of the non-illuminated switch or
pushbutton
At the end of the time period, the load is
switched OFF
Flashing
004742 For switching ON and OFF a load (lighting, sounder) for different

Motor start (star / delta)
004700 For starting a load (motor) in 2 steps


004743 For switching a load ON for a specific
$\qquad$
of the non-illuminated switch or pushbutton
At the end of the
At the end of the time period, the load is
Wipe contact flick contactor
$004745 \begin{aligned} & \text { For switching a load ON for a specific } \\ & \text { time }\end{aligned}$

The time period ( $T$ ) starts when the relay is switched ON
At the end of the time period ( T ), the load
is switched OFF
Multifunction
004744 - ON delay

- ON delay
OFF delay
- ONOFF dela
- OFF delay
- ONNOF delay
- Timer (pulse)
- Timer and passing contac
- Totaliser on delay $\qquad$


Scan the QR code
$+{ }^{+}$

## BLUETOOTH SET UP

Pincod
The factory setting for pin code entry is PASSIVE.If the pin code is set to ACTIVE, the access code is preset to 123123. This is unless the pin code was changed in the Legrand Time-Switch app.

The Legrand Time-Switch app can be used to change the access code.
A maximum of
A maximum of 8 smartphones/tablets can be
simultaneously paired with a timer. If more smartphones/tablets need to be paired, the oldes pairing will be deleted.
The standard time switch name (AlphaRex) can be
changed using the Legrand Time-Switch)
e-Switch app.
If PASSIVE is selected, or after a reset, the access lock is
removed. The access code set remains unchanged.


## Connecting smartphones and AlphaRex ${ }^{3}$ BLE

## Below are the basic instructions for pairing a smartphone <br> with an AlphaRex ${ }^{3}$ BLE timer

1. First install the Legrand Time-Switch app.
. Go to the Bluetooth section of your smartphone; this is
2. usually under Settings. Make sure Bluetooth is switched on.

GPS does not have to be activated.
The AlphaRex ${ }^{3}$ BLE timer must be supplied with mains
velagices are now displayed within the Legrand Time-Switch
app, both when uploading and when importing.
Select the AlphaRex ${ }^{3}$ BLE timer from the list of devices.
The access code is 123123
Enter the access code
${ }^{8}$ 9. The AlphaRex ${ }^{3}$ BLE is now paired.

## Importing projects

Note! At the start of and during Bluetooth communication he relay outputs are put into an idle state.

1. Select the AlphaRex ${ }^{3}$ model from which the project is to be
imported. The transfer will start automatically


## Uploading projects

Note! At the start of and during Bluetooth .ication, the relay outputs are put into an idle state.
. Make sure your smartphone has Bluetooth and positioning furned on.
3. Press the key $\hat{\text { 最 }}$. Select the Alph
transferred.
5. The transfer starts automatically.


Reset
Warning!
The memory is deleted and
all saved data is lost Pind
all saved data is lost. Pin code
ntry is set to PASSIVE.
The access code set remains unchanged.
Hold down $0 \ll$ for more than
3 seconds and at the same
me press and release.
回 -
The language, time, date, summertime/wintertime and switching times will
have to be reentered.


Warning!
ektrical shock - Disconnect all power from the device before dismanting the module and replacing the battery.
Always use a Li cell type battery (LiMnO $)$ CR2477, 3 V high


A Program consists of switch-ontime, a sw
2) Can be set to mains synchronous operation
Connection diagram
AlphaRex ${ }^{3}$ D21
AlphaRex ${ }^{3}$ 22 astro
AlphaRexx
OY22
$x^{3}$ D2 astro


Functions
(4) Select menu, go back while in menu

- Cont 1 sec $=0$ er
ok Confirm the selection or accept the parameter
- Select the menu item or set the parameter
for 2-channel time switches, can be used
to select the channel (channel 1 - channel 2 )
Brief description of programming functions


## Text guidance

Guides the user through programming and setup with plain text prompts. Each step can be read on the screen, and the function hat is currently active flashes. An integrated display and button ight makes operation easy even in poorly lit environments.

## Set language

The language selection function can be accessed using the The following languages can be selected: German, English, rench, Italian, Spanish, Dutch, Portuguese ${ }^{*}$, Swedish**, Norwegian ${ }^{*}$, Finnish $h^{*}$, Danish ${ }^{*}$, Polish ${ }^{*}$, CZech $h^{*}$, Russian ${ }^{*}$,
Turkish*.
Cluding AstroRex DY64
Time, date, summer time (daylight saving time)
The time switch is preset at the factory to the current time and
date. The time can be changed by selecting "MENU" + "SET"


Reset
Simultaneously pressing all buttons for more than 2 seconds deletes all data. Language, date/time, summer time (daylight saving time) and switch times must be set again.
Data key
If the supply voltage is switched on, the "KEY - READ - WRITE" menu item is automatically opened when a data key is inserted. Caution: Any data present on the key will be overwritten. "READ": Program data is written from the key to the tive switch; any switching programs on the time switch are overwitten. Only one
master switching program, which consists of multiple switching programs, can be saved on the time switch or on the key at a t time
pf the sumply voltage is not connected, the "KEY - READ - WITE menu item is not automatically opened when a data key is menu tem is not automatically opened when a data key is
isserted. The KEYY function can still be selected from the
menu even if the supply voltage is not connected.

## PC programming

In addition to the easy, text-guided programming directly on the time switch, switching programs can also be created on a
PC with the software program from Legrand and transferred to the time switch using a data key. A data transfer device (cat. no 412873) is required to transfer switching programs created on
a PC to the data key. The device is connected to the PC using the USB plug. In addition to the data transfer device, we also
offer a CD with the softere offer a CD with the software and the necessary drivers. PC system requirements: USB port; Windows ${ }^{\oplus}$ XP, Windows ${ }^{\ominus}$ Vista, Windows ${ }^{\circledR} 7$; approx. 40 MB of free memory.

## AlphaRex ${ }^{3}$ digital time switches

## Brief description of programming functions

## Weekly programs

To create a weekly program, select "MENU", "PROGRAM", and then "CREATE" to easily enter programs which are repeated on a weekly basis. A weekly program consists of a switch-on/switch-off times and days which are assigned as "switched-on" or "switched-off". The
following predefined blocks can be selected: "MONDAY - SUNDAY", "MONDAY - FRIDAY" or "SATURDAY - SUNDAY"; the assigned day of the week are fixed. The switch-on/switch-off times must be entered. The user can also set custom day blocks. By selecting "CUSTOM",
switch times can be freely assigned to any days of the week. This option also allows the user to set switch times at midnight.

## Yearly programs

verlap with one another and with the weekly programs on the same channel based on an "OR" connective. The validitidity period. They can by entering the start date (at 00:00:00) and the end date (at 24:00:00). The start date must be entered before the end date. With the EVERY YEAR" option, the additional switch times have the same validity period each year (Christmas, national holidays, birthdays, etc.)
Select the "ONCE" option when additional switch times are needed within a validity period (e.g. during holidays), but the start/end dates Select the "ONCE" option when additional switch times are needed within a validity period (e.g. during holidays), but the start/end dates Special programs (priority program)
Weekly and yearly yrograms on the same channel are not executed during the validity period of a special program. However, other special rograms can be executed during the validity period. Different special programs can overlap with each other based on an "OR" conne birthdays, etc.). Select the "ONCE" option when addditional switch times are needed within a validity period (e.g. during holidays), but th sart/end dates of the holiday period change from year to year.Adan mal optons lit hannel only switche
me period. ime period.

## Basic functions for "Astro"

Location (Astro)
The sunrise/sunset times, which change daily, are calculated for the location programmed in the AlphaRex. The unit is delivered with
the location set to "GERMANY- SOEST" by default. Enter the actual location for optimal operation. This can be done in two ways Select "MENU", "SET" and "ASTRO" to access the two options "LOCATION" and "COORDINATES". "LOCATION": With this menu item, the user can select the country and city which is closest to the site of operation. "COORDINATES": Alternatively, the user can select his menu item to set the geographical coordinates of the location. The ongitude and latituade values are entered in degrees or degrees and arcminutes (precision can be set in expert

Offset
By selecting "MENU", "SET", "ASTRO" and "OFFSET", time differentials can be set for the calculated switch times. This can be done in two ways: time offset or angle offset.
melofset, a time differential can be entered to shift the switch time by up to $+1-120$ min relative to the sunnise/sunset times. In angle offset, a value can be entered in degreas and arcminutes to shift the switch time by up to +1 - $12^{\circ} 00^{\circ}$ relative to the sunnrise/ setting the sunset offset) and "SUNRISE" (opens the screen for setting the sunrise offset).

or a time differential of +30 min, the time switch switches 30 min. after sunrise and 30 min. after sunset.
For a time differential of -30 min, the time switt
or a time differential of - -30 min , the time switch switches
30 min . before sunrise and 30 min . before sunset.

## Offset correction function

## ffset correction functio

The time correction is set to 'AO" and "CORRECTION" to set a time correction for the 6 -month periods surrounding summer and winte "SUNSET" menu item. The time correction for sunrise is set in the "SUNRISE" menu item. The correction function overlaps with the Example:
.ch times, including the offset setting
Setting a time correction extends the daily switched-on time by up to 60 min. in the middle of the six winter months (switches off up to 30 min. later in the morning and switches on up to 30 min. eariier in the evening). In the middle of the six summer months, the time 30 min later in the the daily switched-on time by up to 60 min . (switches off up to 30 min . earier in the morning and switches on up to Basic settings using a PC and day coy
Basic settings using a PC and day key
from Legrand and imported to the time switch usine exception of the current time and date, can be set up using the AlphaSoft software switch using the data key

## AlphaRex ${ }^{3}$ digital time switches

Additional functions
(Type-dependent - see selection table on page 7 )
Relay function
The relay state can be changed by selecting "MENU" and "FUNCTIONS". The relay is preset to the "UUTO" function; the time switch switches
 switching status speciifed by the program is inverta

Holiday program
In holiday program, the holiday period is set with a start and an end date. It can be activated with the "ACTIVE" program item and deactivated with "PASSIVE". If the holiday program is activated, the time switch does not carry out any programmed switch commands during this time period. Instead, it remains "ALWAYS OFF" or "ALWAYS ON" during the hol
the time switch resumes switching according to the programmed switch times

1 h test
The "1 h TEST" function can be used for a switching simulation. If "1 h TEST" is activated, the switch outputs are switched for one hour
IN code
Input and programming can be locked using a four-digit "PIN CODE". The time switch can be unlocked using the "PIN CODE". The time
Operating hours counter
This function displays the time for which the relay has been switched on and the date of the last reset. Counting range: $65,535 \mathrm{~h}$.
This function allows the user to adjust the display contras.
Expert mode*
Expert mode is activated by selecting "OPTIONS" and "EXPERT". Atter expert mode is activated, the following additional functions can be used: control input "extra" ", control input "out" ", cycle function, channel-switching function (2-channel time switches), mains synchronous operation, offset correction function, geographical coordinates in degrees and arcminutes.
AlphaRex ${ }^{3}$ D21s, AlphaRex ${ }^{3}$ D21 astro, AlphaRex ${ }^{3}$ DY21

## Control input with switch-off delay

Adjustable switch-off delay via control input. The control input enables an additional switching of the relay, parallel to the switching program. The switch-off delay can be set from 0 s to 23 h 59 min 59 s . The switch-off delay begins as soon as the voltage is removed from ontrol input "extra"
verride of switching state via control input. If the "EXTRA" function is activated, the switching state specified by the program is inverted the time switch resumes switching according to the programmed switch times after the next switch command. The "EXTRA" function is ended prematurely if the button is pressed again or if a pulse is received at the control input.
Control input "off"*
switch off via control input. Activating the "OFF" function causes the time switch to be switched off via the control input. The "OFF" function is ended if the button is pressed again or if a pulse is received at the control input. The time switch resumes switching on/off according to

Pulse function
Programmable with precision to the second
Cycle function
unction for cyclical switching. With this function, the time switch is switched on once within a defined time period and for a defined duration. The cycle time can be set between 2 s and 2 h . The switch-on time can be set between 1 s and 1 h 59 min 59 s .


Random function
the random function is activated, set switch times are randomly shifted within a range of + /- 15 minutes.

## hannel-switching function

With 2-channel time switches, this function can be activated so that the time switch regularly switches between the outputs assigned to the channels, in order to protect connected devices (for example lights/lamps) or so that two devices can be used simultaneously. The channel-switching function is activated by selecting" MENU", "OPTIONS" and "CHANNEL 1>2". The time switch switches between (
he outputs according to whether the menu item "DAILY" (once per day at 12:00 p.m.) or "WEEKLY" (once per week on Sunday at 12:00
p.m.) is selected.

## Mains synchronous operation

Mains synchronised clock precision. By activating the "SYNC" function and then "ACTIVE", the quartz-controlled time switch becomes a synchronous time switch.


NOTES


## 4 legrand

## Legrand Australia

Building 4, Nexus Industry Park 43-47 Lyn Parade, Prestons NSW 2170
Tel.: 1300369777
www.legrand.com.au
Legrand New Zealand
106-124 Target Road
Glenfield, Auckland 0627
Tel.: 0800476009
www.legrand.co.nz

