STB1

ALGE-TIMING

Manual

Important Information

General

Before using your ALGE·TIMING device read the complete manual carefully. It is part of the device and contains important information about installation, safety and its intended use. This manual cannot cover all conceivable applications. For further information or in case of problems that are mentioned not at all or not sufficiently detailed, please contact your ALGE·TIMING representative. You can find contact details on our homepage www.alge-timing.com

Safety

Apart from the information of this manual all general safety and accident prevention regulations of the legislator must be taken into account.
The device must only be used by trained persons. The setting-up and installation must only be executed according to the manufacturer's data.

Intended Use

The device must only be used for its intended applications. Technical modifications and any misuse are prohibited because of the risks involved! ALGE·TIMING is not liable for damages that are caused by improper use or incorrect operation.

Power supply

The stated voltage on the type plate must correspond to voltage of the power source. Check all connections and plugs before usage. Damaged connection wires must be replaced immediately by an authorized electrician. The device must only be connected to an electric supply that has been installed by an electrician according to IEC 60364-1. Never touch the mains plug with wet hands! Never touch live parts!

Cleaning

Please clean the outside of the device only with a smooth cloth. Detergents can cause damage. Never submerge in water, never open or clean with wet cloth. The cleaning must not be carried out by hose or high-pressure (risk of short circuits or other damage).
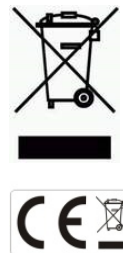
Liability Limitations

All technical information, data and information for installation and operation correspond to the latest status at time of printing and are made in all conscience considering our past experience and knowledge. Information, pictures and description do not entitle to base any claims. The manufacturer is not liable for damage due to failure to observe the manual, improper use, incorrect repairs, technical modifications, use of unauthorized spare parts. Translations are made in all conscience. We assume no liability for translation mistakes, even if the translation is carried out by us or on our behalf.

Disposal

If a label is placed on the device showing a crossed out dustbin on wheels (see drawing), the European directive 2002/96/EG applies for this device.
Please get informed about the applicable regulations for separate collection of electrical and electronical waste in your country and do not dispose of the old devices as household waste. Correct disposal of old equipment protects the environment and humans against negative consequences!

Table of Content

Subject to changes

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1   STARTBEEP STB1 COMPONENTS

1 .... internal switch: e.g. for manual start or horn
2 .... rotary switch: switch with position off (0) and 15 function positions
3 .... green and black banana jacks: for synchronization and external hand switch
4 .... white banana jacks: potential free contact to start a timer
5 .... 6 pin DIN jack: connection for net charger ALGE NGL13 or external switch
6 .... screwed hook to fix the Startbeep chain to a post

2   General

The ALGE Startbeep is a device for regulated and organized starts

The Startbeep has 9 fixed and 2 selectable programs. It has also a program which starts a countdown by pressing the red button (1).

All countdown programs can be started with or without a pre-warning. The pre-warning is an acoustic signal, starting ten seconds before the start.

3 SWITCH POSITIONS


```
0......... Power off
1........ Countdown every 10 seconds (Pre-warning not possible)
2........ Countdown every 15 seconds
3........ Countdown every 20 seconds
4........ Countdown every 30 seconds
5........ Countdown every 40 seconds
6........ Countdown every 45 seconds
7........ Countdown every 60 seconds
8........ Countdown every 1 minute 30 seconds
9........ Countdown every 2 minute 30 seconds
A ........ User programmable time A
B ........ User programmable time B
C ........ Set minutes
D ........ Set seconds
E ........ Horn (Acoustic signal)
F ........ Manual (countdown by pressing button (1)
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4 GENERAL FUNCTIONS

4.1 PRE-WARNING

The standard countdown is without a pre-warning (no ten second tone before the start)

If you would like to work with a pre-warning, press and hold the red button (1) while turning the device on. Now every countdown program has a pre-warning tone ten seconds before the start.

The pre-warning tone works only for intervals over 10 seconds in duration.

4.2 SWITCH COUNTDOWN INTERVALS (2)

You can switch the countdown intervals at any time to a new position. Once you reach the new position, press the red button (1) to confirm the new countdown interval.

4.3 START OUTPUT TO START A TIMING DEVICE

If you connect the two white banana jacks (4) on the Startbeep to another timing device (Start input), you can start the timer with the Startbeep. The timer starts with the beginning of the last beep (high tone) of the countdown.

4.4 SYNCHRONIZATION AND EXTERNAL HANDSWITCH

The Startbeep can be synchronized with other timing devices through the green and black banana jacks (3). This makes it possible to control the lead and lag times.

It is also possible to plug a hand switch into the green and black banana jacks (3) to start the manual countdown or horn.

5 PROGRAMS

5.1 PROGRAMS 1 – 9 (SWITCH POSITION 1- 9)

A fixed interval is programmed for each switch position between 1 and 9. If you press the red button (1) while you switch the device on the pre-warning tone is set. After you turn the switch to the position you need, you need to press the red button (1) to start the countdown.

5.2 USER PROGRAMMABLE INTERVALS

Two countdown times can be programmed individually. You can store one on switch position A and the other on switch position B.

TO SET USER PROGRAMMABLE INTERVALS
- Rotate the switch 2 to position "C"
- Every time you press the red button (1) it increments by a minute
- Rotate the switch 2 to position "D"
- Every time you press the red button (1) it increments by a second
- Rotate the switch 2 to position "A" or "B" and store the interval by pressing the red button (1)
- The user programmable interval is stored until you turn the Startbeep off

5.3 MANUAL COUNTDOWN THROUGH PRESSING A BUTTON

If you turn the switch to position "F", you can start the countdown by pressing the red button (1).

5.4 HORN

Rotate the switch (2) to position "E". The tone sounds as long as you press the red button (1).

6 TECHNICAL DATA

Quartz frequency: 4,608 MHz

Temperature range: -25 to +45 degrees Celsius

Storage temperature: -40 to +65 degrees Celsius

Power supply: 1 alkaline battery 9V or
                   1 NiCd rechargeable battery 9V (8.4 or 7.2V)

Power consumption: 2 mA without speaker output
                       150 mA during speaker output

Recharge time (if using NiCd battery):
            14 hours (do not charge the battery longer than 16 hours, it may de-
            crease the life of the battery.

Working time with full NiCd charge:
·   With 30 sec. Countdown and without pre-warning: 20 hours
·   With 30 sec. Countdown and with pre-warning: 10 hours

Working time with full alkaline battery:
·   With 30 sec. Countdown and without pre-warning: 80 hours
·   With 30 sec. Countdown and with pre-warning: 40 hours

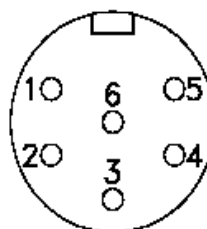*Operating elements:*   1 turn switch
                        1 button

6.1   CONNECTION SYSTEM

6.1.1 INPUTS

- **6 pin DIN jack (5)**

  Connection for net charger (NGL13) and external hand switch with DIN plug

  1.........External button
  2.........No Connection
  3.........Ground
  4.........External supply (+10 to +15V)
  5.........No connection
  6.........No connection

- **Green & Black banana jacks (3)**

  Green jack: external button (like pin 1)
  Black jack: ground

6.1.2 OUTPUTS

- **Two white Banana jacks (4):**
  Normally open relays to start another timer
  (Reed relay max. 12V/0.5A)

- **Green and black banana jack (3)**
  input for synchronized start and input for hand switch (e.g. manual start)