Version-E150520

# **D-LC** Lapcounter



# 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 <u>www.alge-timing.com</u>

#### 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!



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## **Declaration of Conformity**

We declare that the following products comply with the requirements of the listed standards. Parts that we use in the product are CE certificated by the manufacturers and *A*LGE-TIMING GmbH does not change them.

## We, ALGE-TIMING GmbH Rotkreuzstrasse 39 A-6890 Lustenau

Declare under our sole responsibility, that the display boards of the type:

## D-LC

produced from 01.01.2005 and later is in conformity with the following standard(s) or other normative documents(s):

 
 Safety:
 IEC 60950:1999 / EN 60950:2000 EN 60335-1:2002 + A11:2004 + A1:2004 + A12:2006 + A2:2006

 EMC:
 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 EN61000 3-2:2006 EN61000 3-3:1995+A1:2001+A2:2005

### Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC, also the EMC Directive 2004/108EG and accordingly carries the CE-marking.

Lustenau, 30.11.2010

ALGE-TIMING GmbH

er Vetter

Albert Vetter (General Manager)



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## **1** Available System Components:

- Scoreboard with 1, 2 or 3 digits, single, double or triple-sided with built-in powerpack and charger
- Manual switch 023-02
- Tripod for Lapcounter (TRI128 or TRIMAN depending on the Lapcounter model)
- Mains cable (to charge the built-in battery)
- Bell (only for type D-LCB)

## 2 Functions

Countup:count up from 0Countdown:count down from set number

## 2.1 Switch between Countup and Countdown

### From Countup to Countdown:

- Keep the manual switch pressed for at least 5 seconds until 0 is shown. (Reset)
- Press the manual switch again and keep it pressed for at least 5 seconds until 99 (199 for 2,5 Digit and 999 for 3 Digit Lap counter) is shown on the display (the first 9 is blinking)

### From Countdown to Countup:

- Press the manual switch for at least 5 seconds until it shows the countdown value
- Press the manual switch again and keep it pressed for at least 5 seconds until 0 is shown on the display.

## 2.2 Countup (00)

- Display shows 0
- Press the manual button shortly (less than 2 seconds) display counts up one
- Press the button between 2 and 4 seconds display counts down one
- Reset to zero by pressing the button for 5 seconds, if there is already zero on the display it will change the counting mode to countdown

## 2.3 Countdown (99)

- Display shows 99 an (first digit is blinking).
- Set the desired start-value for the blinking digit
- Press the button for 3 seconds, the next digit is now blinking
- Repeat the 2 previous actions until you have adjusted all digits
- The display shows the start value, no digit is blinking anymore
- Pressing the button shortly (less than 2 seconds) increases the value by one
- Pressing the button between 2 and 4 seconds counts up by one
- Pressing the button for about 5 second resets to the start value. If the counter is already at the start value, the counting mode is changed



## 3 Lapcounter Controlled by Timy

It is possible to control the Lapcounter form the Timy. In order to control it from the Timy select the program <Commander> and then <Counter>. Now you can set any number when entering it with the Timy-keyboard and confirm it with the OK-button. To connect the Timy with the Lapcounter D-LC use a banana cable.

Counting up:	Press <f0>, <f1> or green <ok> button</ok></f1></f0>
Counting down:	Press <f2>, <f3> or red <ok> button</ok></f3></f2>
Input a number:	Input number on Timy-keyboard and press <ok></ok>

Connect it at the Timy on the "display board" banana socket and at the Lapcounter at the yellow and black banana socket. The baud rate is 2400 baud.

## 4 RS232 Interface

It is possible to control the Lapcounter by RS232 interface.

Connection: yellow and black banana socket

### **Standard Setting:**

- 2400 Baud
- 1 start bit
- 8 data ASCII-Bit
- 1 stop bit
- no parity bit

#### **Protocol:**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	Н	b	Ζ	Е	b	b	CR

b.....blank

H .....hundred-digit

Z.....ten-digit

E .....one-digit

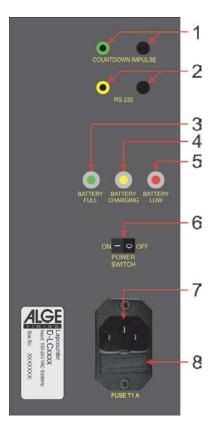
CR.....Carriage Return



## 5 Technical Data

All connections, switches and status LED are on the bottom of the Lapcounter D-LC.

- 1 Connection for push button
- 2 RS232 connection
- 3 Status LED green full battery
- 4 Status LED yellow battery charging
- 5 Status LED red low battery
- 6 On/Off-Switch
- 7 Mains 100-240V, 50-60Hz
- 8 Fuse (1.0A)



## 5.1 Powerpack

The Lapcounter has an integrated Powerpack and charger which supplies power for about 15 hours in continuous use.

To recharge the battery you have to supply the counter with mains for 14 hours.

ATTENTION!! If the value is not changed during 5 minutes the counter switches to power save mode. Pressing the button once reactivates the counter in the previous settings.



Subject to changes

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