

Timing



ALGE-TIMING

LapTimer

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!



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Table of Contents

1	Keyboard and how to get started.....	4
2	Program LapTimer.....	4
3	Operation of Program LapTimer:.....	4
4	Displayboard Mode	4
4.1	Total Runtime:	5
4.2	Lap Time:.....	5
5	PRINTER-MODE.....	5
5.1	Printer Runtime ON	5
5.2	Printer Runtime OFF	5
6	RS 232 Interface.....	6
6.1.1	RS 232 commands	7



1 Keyboard and how to get started

See Timy manual „GENERAL“.

2 Program LapTimer

The program LapTimer has been made for all sports that measure lap times (e.g. motor racing). It is possible to have several competitors on the course. To measure the times, you need to be able to input the racer number before he passes the finish (lap).

3 Operation of Program LapTimer:

- Switch on the Timy as described in the Timy manual “GENERAL”
- Select <LapTimer>
- Clear the memory with key F0 or CLR and press one of the OK keys (OK or OK).
- Input the time of day and date for synchronization and confirm by pressing either one of the OK keys (OK or OK) or by pressing F0 .
To start a synchronization, press the key **START** .
- Now the ID-number 1 and the time zero are indicated on the display.
- To input another ID-number use the keyboard and confirm by pressing one of the OK keys (OK or OK)
- Start the racer with a start impulse (channel 0) or by pressing the key .
- Stop each competitor with a finish impulse (e.g. photocell).
- To restart a competitor, input the ID-number and press CLR and then F0 . Now you can start this ID-number again.

4 Displayboard Mode

You can select between two modes:

TOTAL-RUNTIME
LAP-TIME

To select these modes, please proceed as follows:

- Press the <MENU> button
- Select <LAPTIMER>
- Select <GAZ-MODE>
- Now you can choose between the modes <TOTAL-RUNTIME> and <LAP-TIME>.

4.1 Total Runtime:

The displayboard shows the runtime, but no lap time.

4.2 Lap Time:

The displayboard shows the lapttime, but no runtime.

5 PRINTER-MODE

It enables you to select between both, a printout of laptimes and runtimes or one of laptimes only.

To select these modes, please proceed as follows:

- Press the <MENU> button
- Select <LAPTIMER>
- Select <PRINT RUNTIME>
- Now you can choose between run time <ON> or <OFF>.

5.1 Printer Runtime ON

For each time stopped, the start time, finish time, run time and lap time (sequential time) will be printed. The following example refers to one racer:

0001	ST	11:59:33.5736	ID-number 1 start time (time of day)
	FT	12:00:39.9269	ID-number 1 first lap time (time of day)
1	RT	1:06.35	ID number 1 run time (first lap)
1	SQ	1:06.35	ID number 1 lap time (first lap)
0001	ST	11:59:33.5736	ID-number 1 start time (time of day)
	FT	12:01:45.3325	ID-number 1 second lap time (time of day)
2	RT	2:11.75	ID number 1 run time (second lap)
2	SQ	1:05.40	ID number 1 lap time (second lap)

5.2 Printer Runtime OFF

For each time stopped, the start time, finish time and lap time (sequential time) will be printed. The following example refers to one racer:

0001 ST	11:59:33.5736	ID-number 1 start time (time of day)
FT	12:00:39.9269	ID-number 1 first lap time (time of day)
1 SQ	1:06.35	ID number 1 lap time (first lap)
0001 ST	11:59:33.5736	ID-number 1 start time (time of day)
FT	12:01:45.3325	ID-number 1 second lap time (time of day)
2 SQ	1:05.40	ID number 1 lap time (second lap)

6 RS 232 Interface

RS 232 interface

Standard = 38.400 baud (adjustable: 2400, 4800, 9600, 19200, 38400)
 8 data bit, no parity bit, 1 stop bit

ASCII characters

0056 C0	12:13:43.9682	00	Start time of ID 56
0056 C1	12:14:50.8340	01	Finish time 1 (lap time 1) of ID 56
0056 RT	00:01:06.86	01	Run time 1 of ID 56
0056 SQ	00:01:06.86	01	Lap time 1 of ID 56
0056 C1	12:15:55.1055	02	Finish time 2 (lap time 2) of ID 56
0056 RT	00:02:11.13	02	Run time 2 of ID 56
0056 SQ	00:01:04.27	02	Lap time 2 of ID 56
n0056			Change of ID-number
c0056 C0	12:13:43.9682	00	Reset of ID 56 for a new start (clear start time)
n0056			Change of ID-number
0056 C0	12:16:22.0366	00	Start time of ID 56
n0057			Change of ID-number
0057 C0	12:16:40.3722	00	Start time of ID 56
n0056			Change of ID-number
0056 C1	12:17:28.3744	01	Finish time 1 (lap time 1) of ID 56
0056 RT	00:01:06.33	01	Run time 1 of ID 56
0056 SQ	00:01:06.33	01	Lap time 1 of ID 56
n0057			Change of ID-number
0057 C1	12:17:47.0784	01	Finish time 1 (lap time 1) of ID 56
0057 RT	00:01:06.70	01	Run time 1 of ID 57
0057 SQ	00:01:06.70	01	Lap time 1 of ID 57

Each string ends with a **carriage return**

First character:

n Input of a new ID-number

c Deletion of an ID-number to make a new start

Channels:

Channel 0	C0	max. precision 1/10.000
Channel 0M	C0M	max. precision 1/100 – manual = keyboard
Channel 1	C1	max. precision 1/10.000
Channel 1M	C1M	max. precision 1/100 – manual = keyboard
Channel 2	C2	max. precision 1/10.000
Channel 3	C3	max. precision 1/10.000
Channel 4	C4	max. precision 1/10.000
Channel 5	C5	max. precision 1/100
Channel 6	C6	max. precision 1/100
Channel 7	C7	max. precision 1/100
Channel 8	C8	max. precision 1/100

6.1.1 RS 232 commands

	Parameter	Example	Explanation	Description
BE	0 or 1	BE0 BE1BE?	Beep tone	Request, on/off
BWF		BWF	Update of program - RS 232	Afterwards update-file
USB-TIMY:BWF!!!!		USB-TIMY:BWF!!!!	Update of program - USB	Afterwards update-file
DIT1	00 - 99	DIT103 DIT1?	Display time 1 in display	Request, Set
DIT2	00 - 99	DIT299 DIT2?	Display time 2 in display	Request, Set
DTF	00.01 - 59.99	DTF00.03 DTF?	Delay time for finish and intermediate	Request, Set
DTS	00.01 - 59.99	DTS09.99 DTS?	Delay time for start	Request, Set
KL	0 or 1	KL0 KL1 KL?	Keyboard lock	Request, on/off
NSF?		NSF?	Timy version of program	Sends NSFV03B2
PRI_AF	0 - 9	PRI_AF3	Line Feed adjustment for printer	Printer AutoLineFeed 0 - 9
PRI	0 or 1	PRI0 PRI1	On, or. off from printer	Request, on/off
PRILF		PRILF	Line Feed for printer	Set
PRILO		PRILO	Print of ALGE-logo	Set
PRIM		PRIM	Printing of memory	Printing memory
RSM		RSM	Send memory through RS 232	Memory on RS 232
SL	0 or 1	SL0 SL1 SL?	Printout of ALGE logo (switch on)	Request, on/off
TIMYINIT		TIMYINIT	Output of Timy hardware number	Not specified

