

ALGE-TIMING

Timy 2



Manual Timy2 – PC-Timer

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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Declaration of Conformity

We declare that the following products comply with the requirements of the listed standards.

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

declare under our sole responsibility, that the timing device

Timy2 XE and Timy2 PXE

is in conformity with the following standard(s) or other normative documents(s):

Safety: EN 60950-1:2006 + A11:2009

EMC: EN55022:2006+A1:2007
EN55024:1998+A1:2001+A2:2003
EN61000 3-2:2006 + A1:2009 + A2:2009
EN61000 3-3:2008

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, 20.10.2010

ALGE-TIMING GmbH



Albert Vetter
(General Manager)

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1 Keypad and Start Up

See TIMY2 Manual GENERAL

1.1 Menu

All standard menu settings are described in the general manual for the Timy 2.

2 Program PC-Timer

The Timy2 can form a very strong combination with the PC, i. e. the exact time comes from the Timy2, the rest of the timing is carried out at the PC. In this program the Timy2 issues the running time in 1/10 seconds interval. When an impulse is triggered, the daytime with its corresponding time number (subsequent number or entered start number) and channel identification is sent to the PC.

In case the program PC-Timer is selected, the following appears on the display:

```

TIME 12:34:56.7893
SYNC DATE 28-09-04

12:32:07.8
    
```

SYNC-time daytime – enter time or press OK

SYNC-time date – enter date or press OK

currently running daytime

The Timy 2 now waits for the sync-impulse. When it is sent or manually triggered, the following appears on the display:

```

SYNC DATE 28-09-04
TIME 12:34:56.7893

12:32:07.8
→→→ 0 1 2 3 4 5 6 7 8
    
```


synchronized date

synchronized time


currently running daytime

With key F0 you can see the list of stopped times.

2.1 Clear Times (CLR)

In case a double impulse or false impulse was triggered, it can be cleared with . The time that is to be cleared has to be in the last line. When the time is cleared, it is indicated by a “c” on display and printout.

2.2 Edit Start Numbers (STN)

Select correct line and press . The start number begins to blink. Correct the start number and confirm with either of the “OK” keys. The change line is indicated by an “n”.

2.3 Correct Times (Time)

Select correct line and press **F2**. The first figure of the time starts to blink. Correct the time and confirm with either of the “OK” keys. The changed time is indicated by an “i”.

2.4 Manual Start or Stop Impulses

Impulses that are triggered with **START ON** and **STOP OFF** are indicated with an “M” for manual next to the channel identification. These times are only shown with a precision of 1/100 seconds.

2.5 External Start or Stop Impulses

Impulses that are triggered by an external device (e. g. push-button, start microphone) are only displayed and printed.

2.6 Timing Channels

The Timy2 differentiates between up to 9 timing channels.

C1	start channel
C2	finish channel
C3 – C8	timing channels

2.7 Memory (MEMO)

This is mainly used when many competitors reach the finish at the same time and there is no time to enter the start numbers. The arriving times are listed one after the other and can later be allocated to the correct start numbers.

By pressing **F0** you enter the memo mode and also exit it. The memo times are indicated by an “m”. The start number of the second line blinks. Enter the correct start number and confirm with either of the “OK” keys. In the submenu MEMOTIME you can select if you want to have the memo times indicated with “m” or not.

In case several competitors finished at the same time (ex equo) proceed as follows:



- Enter one of the correct times at the blinking start number and press **F1** (copy).
- The time freezes in memo window and the next start number can be entered.
- The last competitor who has the same time press either of the “OK” keys instead of “copy” so that the time is cleared from the memo window.
- In case a time is left over that is no required anymore, it can be cleared with **CLR**.



It is possible to exit the memo window at any time and continue with the rest of the times later.

2.8 Display Options (AKT)

When pressing **F3** (AKT) the last stopped time is shown in the first line for the period of the set display time.

2.8.1 Further Display Options

With pressing  and  you jump to the beginning of the times list.

With pressing  and  you jump to the end of the times list.

2.9 Mass-Start

Without turning the device off a new mass start can be initialized.

- Enter the main menu
- Select submenu PC-Timer/Mass Start
- Timy2 asks if to clear or save the existing times
- If necessary, a new time or a new date can be set
- Press „OK“ until “Wait for Start Impulse” appears
- Timy2 is now ready for next start

2.10 STN Recognition

In case the recognition is activated in submenu STN*, the manually entered start number is indicated with a star. Afterwards the automatic start order is continued. So if a start number is entered deliberately, it is indicated by a star. Thus it can be distinguished between “automatically generated” and “real” (manually entered) start numbers.

2.11 Time-Window

In the submenu TIME-WINDOW can be set for how long the automatic allocation of a start number to a new impulse is blocked.

2.12 Memotime

In the submenu MEMOTIME can be set if the memo times are to be printed.

NOT PRINT – The memo times are not printed.

PRINT – The memo times are immediately printed indicated with “m”.

After entering the start number always all times are printed (no matter what settings were made).

2.13 Range

In the submenu RANGE can be set if the time restarts at zero after 24 or 99 hours.

3 RS232 Interface

3.1 Interface Data

RS232 interface
38.400 baud (non-adjustable)
8 Data Bit, no Parity Bit, 1 Stop Bit
ASCII figures

Output of running time in 1/10 seconds, in between the stopped times are issued

B####bCxxbHH:MM:SS:zhtq (CR) stopped time
HH:MM:SS.z (CR) running time

B Blank
..... subsequent number of start number
Cxx channel (see below, if only 2 figures than additional blank)
HH hours
: separation
MM minutes
SS seconds
z 1/10 seconds
h 1/100 seconds
t 1/1.000 seconds
q 1/10.000 seconds
(CR) Carriage Return

Channels:

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

3.2 Protocol of RS232 Interface:

07:50:40.0	running time in hrs, min, sec and 1/10 seconds
07:50:40.1	running time in hrs, min, sec and 1/10 seconds
07:50:40.2	running time in hrs, min, sec and 1/10 seconds
0033 C0 07:50:40.2828 00	33 impulse of channel 0
07:50:40.3	running time in hrs, min, sec and 1/10 seconds
07:50:40.4	running time in hrs, min, sec and 1/10 seconds
07:50:40.5	running time in hrs, min, sec and 1/10 seconds
0034 C1 07:50:40.5015 00	34 impulse of channel 1
07:50:40.6	running time in hrs, min, sec and 1/10 seconds
07:50:40.7	running time in hrs, min, sec and 1/10 seconds
0035 C3 07:50:40.7863 00	35 impulse of channel 3
07:50:40.8	running time in hrs, min, sec and 1/10 seconds
07:50:40.9	running time in hrs, min, sec and 1/10 seconds
07:50:41.0	running time in hrs, min, sec and 1/10 seconds
07:50:41.1	running time in hrs, min, sec and 1/10 seconds
07:50:41.2	running time in hrs, min, sec and 1/10 seconds
07:50:41.3	running time in hrs, min, sec and 1/10 seconds
07:50:41.4	running time in hrs, min, sec and 1/10 seconds
07:50:41.5	running time in hrs, min, sec and 1/10 seconds
0036 C5 07:50:41.5175 00	36 impulse of channel 5
07:50:41.6	running time in hrs, min, sec and 1/10 seconds
0037 C4 07:50:41.6536 00	37 impulse of channel 4
07:50:41.7	running time in hrs, min, sec and 1/10 seconds
07:50:41.8	running time in hrs, min, sec and 1/10 seconds
0038 C6 07:50:41.83 00	38 impulse of channel 1
07:50:41.9	running time in hrs, min, sec and 1/10 seconds
0039 C7 07:50:41.94 00	39 impulse of channel 1
07:50:42.0	running time in hrs, min, sec and 1/10 seconds
07:50:42.1	running time in hrs, min, sec and 1/10 seconds
0040 C8 07:50:42.17 00	40 impulse of channel 1
07:50:42.2	running time in hrs, min, sec and 1/10 seconds
07:50:42.3	running time in hrs, min, sec and 1/10 seconds
0041 COM 07:50:42.40 00	41 impulse, channel 0, manual
07:50:42.4	running time in hrs, min, sec and 1/10 seconds
0042 C1M 07:50:42.46 00	42 impulse, channel 1, manual
07:50:42.5	running time in hrs, min, sec and 1/10 seconds
0043 COM 07:50:42.57 00	43 impulse, channel 0, manual
07:50:42.6	running time in hrs, min, sec and 1/10 seconds
0044 C1M 07:50:42.66 00	44 impulse, channel 1, manual
07:50:42.7	running time in hrs, min, sec and 1/10 seconds
0045 COM 07:50:42.75 00	45 impulse, channel 0, manual
0046 C1 07:50:42.7661 00	46 impulse von channel 1
07:50:42.8	running time in hrs, min, sec and 1/10 seconds
0047 C1M 07:50:42.84 00	47 impulse, channel 1, manual
07:50:42.9	running time in hrs, min, sec and 1/10 seconds
0048 C1 07:50:42.9058 00	48. impulse von channel 1
0049 COM 07:50:42.94 00	49. impulse von channel 1
07:50:43.0	running time in hrs, min, sec and 1/10 seconds
0050 C1M 07:50:43.03 00	50. impulse, channel 1, manual
0051 C1 07:50:43.0321 00	51. impulse von channel 1

Command set Timy	VZ.9	parameter	19.11.2009	green=already built in	Backup	PC-Timer	Stopwatch	Tracker	Training Light	Training Ref	Laptimer	Cyclistart	Commander	Speed	Windspeed	Terminal	Dualtimer
meaning	syntax			example													
Age-Standard	#	4 digits		AS													
enter bb	#	1234- bb 1/2		#1234													
enter bb	#	1234- bb 1/2		#1234b #1234i													
enter bb	#	1234- bb 1/2		#1234c													
only for gm-modem	+	1294C-0 or 1+		#1294C0 #1294C1													
automatic time min	AZN	HH:MM:SS		AZN12:00:00 AZN?													
automatic time max	AZX	HH:MM:SS		AZX12:00:00 AZX?													
beep	BE	0 or 1		BE0 BE1BE?													
User-Prog Update	BWF			USB-TIMY:BWF!!!!													
User-Prog Update	USB-TIMY:BWF!!!!																
Classement memoryline	CALMT			CALMT													
Classement runtime	CALRT			CALRT													
Classement totalline	CALTT			CALTT													
Cyclestart-Signal 1	SY1			CY1?													
Cyclestart-Signal 2	SY2			CY2?													
Cyclestart-Signal 3	SY3			CY3?													
Cyclestart-Signal 4	SY4			CY4?													
Cyclestart counter/roundline	SYC			CYC?													
Cyclestart number of rounds	SYR			CYR?													
display delayme1	DIT1	00 to 99		DIT100 DIT1?													
display delayme2	DIT2	00 to 99		DIT299 DIT2?													
delayline finish and intermediate	DIF	00.01 to 99.99		DIF00.03 DIF?													
delayline start	DTS	00.01 to 99.99		DTS99.99 DTS?													
builds up a Timy2/Timy connection	DIRECT																
Disconnect the Timy2/Timy connection.	DIS																
controls the prog. Football	FOOTBALL																
defines the channel pattern for Timy2/Timy connection.	KAMU																
KEYBOARD_LOCK ???	KL	0 or 1		KL0 KL1 KL2													
Laptimer gps mode	LA	T or R		LAT LAR LA?													
Subset of Timy-data-chain	MI			MIR?													
version of user-program	NSF			NSF?													
ONLY the MODEM sends this	CARRIER			CARRIER													
ONLY the MODEM sends this	CONNECT 9800			CONNECT 38400													
MODEM sends without CR	+++			+++													
ONLY the MODEM sends this	NO CARRIER			NO CARRIER													
ONLY the MODEM sends this	NO DIALTONE			NO DIALTONE													
ONLY the MODEM sends this	CPIN			CPIN													
ONLY the MODEM sends this	OK			OK													
ONLY the MODEM sends this	ERROR			ERROR													
ONLY the MODEM sends this	ATH			ATH													
ONLY the MODEM sends this	ATW5CQ3			ATW5CQ3													
ONLY the MODEM sends this	REVISION			REVISION													
ONLY the MODEM sends this	NPL-1			NPL-1													
ONLY the MODEM sends this	RING			RING													
ONLY the GPS-Device sends this	GPRMC			GPRMC													
ONLY the GPS-Device sends this	PGRMF			PGRMF													
precision	PRE	0,1,2,3 oder 4		PRE0 PRE?													
PRINTER-AUTO-LF	PRLAUF	0 to 9		PRLAUF3													
PRINTER	PRINTER	0 or 1		PRINTER.PRINTER1													
print a linefeed	PRI	0 or 1		PR0 PRI1 PRI?													
print the logo	PRILF			PRILF													
print memory	PRILO			PRILO													
print memory	PRIM			PRIM													
ignore timing impulses to print	PRIGN	0 or 1		PRIGN0 PRIGN1 PRIGN?													
print start	PS	0 or 1		PS0 PS1 PS?													
name of the current active program	PROG	?		PROG?													
rounding	RR	answer:PROG: Name<cr>															
rs232 baudrate	RSBD	answer:PROG: ---<cr>															
send memory to rs232	RSM	24-46,96,19 or 33															
runtime at rs232	RSRT	0 or 1		RSRT1, RSRT0													

3.3 RS232 Command Sequence

Syntax	Parameter	Example	Explanation	Description
BE	0 or 1	BE0 BE1BE?	Beep	query, on/off
BWF		BWF	update of program - RS 232	then update file
USB-TIMY:BWF!!!!		USB-TIMY:BWF!!!!	update of program - USB	then update file
DIT1	00 - 99	DIT103 DIT1?	display time 1	query, command
DIT2	00 - 99	DIT299 DIT2?	display time 2	query, command
DTF	00.01 - 59.99	DTF00.03 DTF?	delay time for finish and intermediate	query, command
DTS	00.01 - 59.99	DTS09.99 DTS?	delay time for start	query, command
KL	0 or 1	KL0 KL1 KL?	keypad lock	query, on/off
NSF?		NSF?	Timy2 version of program	sends NSFV03B2
PRI_AF	0 - 9	PRI_AF3	linefeed settings for printer	printer AutoLineFeed 0 - 9
PRI	0 or 1	PRI0 PRI1	switch on or off of printer	query, on/off
PRILF		PRILF	linefeed for printer	command
PRILO		PRILO	print ALGE logo	command
PRIM		PRIM	print memory	printing of memory
RSM		RSM	send memory via RS232	memory on RS232
SL	0 or 1	SL0 SL1 SL?	print of ALGE logo (switch on)	query, on/off
TIMYINIT		TIMYINIT	output Timy hardware number	not specified

Subject to changes

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