









### **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

flber Vetter

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 form 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 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	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 CLR. 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 *E1*. 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 E2. 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 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.

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 *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 the 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 (1) (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 (AKT) the last stopped time is shown in the first line for the period of the set display time.





#### Further Display Options 2.8.1

With pressing and vou 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 •

#### **STN Recognition** 2.10

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 start. 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

В	. Blank
####	. subsequent number of start number
Схх	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	COM	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 07:50:40.1 07:50:40.2 0033 C0 07:50:40.2828 00 07:50:40.3 07:50:40.4 07:50:40.5 0034 C1 07:50:40.5015 00 07:50:40.6 07:50:40.7 0035 C3 07:50:40.7863 00 07:50:40.8 07:50:40.9 07:50:41.0 07:50:41.1 07:50:41.2 07:50:41.3 07:50:41.4 07:50:41.5 0036 C5 07:50:41.5175 00 07:50:41.6 0037 C4 07:50:41.6536 00 07:50:41.7 07:50:41.8 0038 C6 07:50:41.83 00 07:50:41.9 0039 C7 07:50:41.94 00 07:50:42.0 07:50:42.1 0040 C8 07:50:42.17 00 07:50:42.2 07:50:42.3 0041 COM 07:50:42.40 00 07:50:42.4 0042 C1M 07:50:42.46 00 07:50:42.5 0043 COM 07:50:42.57 00 07:50:42.6 0044 C1M 07:50:42.66 00 07:50:42.7 0045 COM 07:50:42.75 00 07:50:42.7661 0046 Cl 00 07:50:42.8 0047 C1M 07:50:42.84 00 07:50:42.9 0048 C1 07:50:42.9058 00 0049 COM 07:50:42.94 00 07:50:43.0 0050 C1M 07:50:43.03 00 0051 C1 07:50:43.0321 00 running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds 33 impulse of channel 0

running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds 34 impulse of channel 1

running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds 35 impulse of channel 3

running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds

running time in hrs, min, sec and 1/10 seconds 37 impulse of channel 4

running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds 38 impulse of channel 1

running time in hrs, min, sec and 1/10 seconds 39 impulse of channel 1

running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds 40 impulse of channel 1

running time in hrs, min, sec and 1/10 seconds running time in hrs, min, sec and 1/10 seconds 41 impulse, channel 0, manual

running time in hrs, min, sec and 1/10 seconds 42 impulse, channel 1, manual

running time in hrs, min, sec and 1/10 seconds 43 impulse, channel 0, manual

running time in hrs, min, sec and 1/10 seconds 44 impulse, channel 1, manual

running time in hrs, min, sec and 1/10 seconds 45 impulse, channel 0, manual

46 impulse von channel 1

running time in hrs, min, sec and 1/10 seconds 47 impulse, channel 1, manual

running time in hrs, min, sec and 1/10 seconds

48. impulse von channel 1 49. impulse von channel 1

49. Impulse von channer 1

running time in hrs, min, sec and 1/10 seconds

50. impulse, channel 1, manual 51. impulse von channel 1



# Manual TIMY2 – PC-Timer



Amount and Time	100.0	4-1	40.44 0000	anna ann beacha bailt in		$\left  \right $	ļ	ł	$\left  \right $	ŀ		ſ	Γ
command set 11my	67.7A	takes effect from V 09B3	SUUZ.FL.SL	green=aiready built in		;		+	+	+			
					watch Gup	ktimer ktimer	199 Qui	imer	mander estart		pəəds	lenir	timer
meaning	syntax	parameter	example	syntax description	-		nienT	-	_	speed	oniW	meT	Dual
Age-Standard enter bib	¥	4 dioits	#1234	enters a bib over serial port or usb	×	×	*	-	×	×			
enter bib	44	1234 b,tr>	#1234b #1234l	bib for blue/left parcour	+-	⊢		⊢	+	⊢		T	×
enter bib	#	1234 b,I,r>	#1234r	bib for red/right percour									×
enter bib	44	1234C<0 or 1>	#1234C0 #1234C1	bib for start (C0) or finish (C1)	×	+		+	+	_			Τ
only for gsm-modern	•	Only the gsm-modem can send this to the Timy, and then some further commands are following.	me further commands are following			+		+	+	_			
automatic time min	AZN AZY	HH:MI:SS	AZN12:00:00 AZN7	request, set		×		+	+	* *			
been	RF C	0 cr 1	RED RE1RE2	request on off	*	+	>	+	×	+	×	T	×
User-Prog-Update	BWF		BWF	than update-file	+	< ×	< ×	< ×	< ×	< ×	i in		< ×
User-Prog-Update	USB-Timy: BWFIIII		USB-TIMY:BWFIII	than update-file	×	+	×	+	+	+	×		×
Classement memorytime	CALMT		CALMT	Classement memorytime	×	$\left  \right $		╞	┝				×
Classement runtime	CALRT		CALRT	Classement runtime	×			$\vdash$	┝				×
Classement totaltime	CALTT		CALTT	Classement totaltime	×								×
Cyclestart-Signal 1	CY1		CY12	request says e.g. 35E 47A									
Cyclestert-Signal 2	CY2		CY1E59	signal 1 59s ON				-		_			
Cyclestart-Signal 2	CY2		CY2A19	signal 2 19s OFF		+		+	+				
Cyclestart-Signal 3	CY3		CY3E,A	signal ON or OFF		+		+	+	4			
Cyclestart-Signal 3	CY3		CY3E33	signal3 33s ON		+		+	+	_			
cyclestart countdowntime Overlaidart oumbar of councile	CVD		CTC//U/U/-5/35/9	request, uturi, pis stasta		+	1	+	+	_			Τ
Oppressent number of rounds display delaytime1	DIT	00 to 90	DIT103 DIT12	request out out	*	*	>	,	*	+			>
display delaytime2	DIT2	00 to 99	DIT299 DIT2?	request, set	+	* ×	- ×	+	+	×			×
delaytime finish and intermediate	DTF	00.01 to 59.99	DTF00.03 DTF?	request, set	×	⊢	×	-	-				×
delaytime start	DTS	00.01 to 59.99	DTS09.99 DTS?	st	-	×		×	××	×			×
builds up a Timy2Timy connection	DIRECT	Only if 2 Timys are connected over a serial cable, Timy1 sends this to Timy 2 to build up a connection	ds this to Timy 2 to build up a conne	sction	×								
Disconnect the Timy2Timy connection.	DIS	Only if 2 Timys are connected over a serial cable, Timy1 sends this to Timy 2 to disconnect	ds this to Timy 2 to disconnect.		×								
controls the prog. Football	FOOTBALL							+	×	_			
defines the channel pattern for Timy2Timy connection.	KAMU	Only for a Timy2Timy connection, can define which Timy can enable which channels	enable which channels			+		+	+	+			
KEYBOARD_LOCK 777	KL	0 01 1		request, on off	×××	×	×	+	×	×	×		×
Laptimer gaz mode	5:	ן מר א	LAI LAR LA?	request, I =lotatume, K=laptime		+		×	+	+		Ϊ,	
	NSE		NSE2	cande N SEV/03.82	>	>	>	,	>	>	>		>
ONLY the MODEM sends this	CARRIER		CARRIER	timy changes to binary mode	< ×	+	< ×	+	+	+	e ×		< ×
ONLY the MODEM sends this	CONNECT 9600		CONNECT 38400	timy changes to binary mode	+	+	× ×	+	+	+	×		×
MODEM sends without CR	++++		:	timy changes to command mode	×	×	×	-	××	-	×		×
ONLY the MODEM sends this	NO CARRIER		NO CARRIER	disconnected			×	-			×		×
ONLY the MODEM sends this	NO DIALTONE		NO DIALTONE	modem sends the error-message	x	x x	×	×	x x	×	X		×
ONLY the MODEM sends this	CPIN		CPIN		x x x	×	×	-	×	×	×		×
ONLY the MODEM sends this	OK		OK	modem confirmed the last command	$\vdash$		×	$\vdash$			×		×
ONLY the MODEM sends this	ERROR		ERROR	modem didn't confirm the last command	×	+	×	+	×	×	×		×
ONLY the MODEM sends this	ATH		ATH		×	×	×	-	-	-	×		×
ONLY The MODEM sends this	ATV56Q3		A L X56Q3	modem has set to rts/cts-handshake	× :	+	× ;	+	+	+	×		×
ONLY the MODEM sends this	NDI-1			modem is present	x x x	× × × ×	× >	< >	× × × ×	+	×	T	× >
ONLY the MODEM sends this	RING		RING	timv answers with ATA <cr></cr>	× ×	+	< ×	-	-	+			( ×
ONLY the GPS-Device sends this	GPRMC	only the gps-device can send this data-string in order to synchronize the timy to the exactly daytime	hronize the timy to the exactly dayt	me	+			+					
ONLY the GPS-Device sends this	PGRMF	only the gps-device can send this data-string in order to synchronize the timy to the exactly deytime	hronize the timy to the exactly dayti	me									
precision	PRE	0,1,2,3 oder 4	PRE0 PRE7	0=Sec, 1=Tenth, 4=Ten Thousandth	×	+	×	-	+	-			×
PRINTER-AUTO-LF DRINTER	PRI_AF DRINTER		PRI_AF3 DRINTER0 DRINTER1	Printer AutoLineFeed 0 to 9	× > × >	× > × >	× >	× >	× >	× >	5	T	× >
DPI	DRI	0 27 1	DRIG DRIJ DRIG	request, on off	<	+	< >	+	× ×	+	× >		< >
print a linefeed	PRILF		PRILE	set	< ×	+	< ×	+	+	+	×		×
print the load	PRILO		PRILO	Ref. I	< ×	+	< ×	+	+	+	c ×		< ×
print memory	PRIM		PRIM	print memory	×	+	×	+	+	-			
ignore timing impulses to print	PRIGN	0 or 1	PRIIGN0, PRIIGN1, PRIIGN?	set off, set on, request	x x x	×		×	××	×			×
print start	PS	0 or 1	PS0 PS1 PS7	request, on off				-	-				×
name of the current active program	PROG		PROG?	what's the current program ?	x	×	×	+	×	×	×	×	×
			I he name of the active program may differ	may differ.	×	×	× :	+	× ,	×	×	×,	×
		answer PROG:>cr> answer PROG: COMMANDER SUB:SubName	No program was choosen yet.	COMMANDER has many sub programs	+	+	×	×	×	+	×	×	×
rounding	RR	0,1 or 2	RR0 RR1 RR2 RR3	request, 0=Cut, 1=Up, 2=Round	×	×	×	×	×	×			×
rs232 baudrate	RSBD	24,46,96,19 or 38	RSBD96 RSBD?	request, set		×	×	×	×	×	×		×
send memory to rs232	RSM		RSM	send memory to rs232	x : x x	+	×	-	-	-		T	×
runtime at r\$252	KSKI	U OT 1	KSKI1, KSKI0		×				-			1	×



# Manual TIMY2 – PC-Timer



				2		
	RI DAT		CALORIAL CAL	request, on or	,	;
	0.40	0,1 01 2	0/10 0/11 0/12			×
	CAU C	0,1 0f 2	SASU CAST SASZ	request u = on,1=up,2=uown	x	×
START_LOGO	21	0 cr 1	SLO SL1 SL7	request, on off	X X X X X X X X X X X X X X X X X X X	×
second mode	SM	0 ar 1	SM0 SM1 SM?	request, set	x	×
Speed distance in meters	SPDI	0000.1 to 9999.9 or 0001 to 9999 or 7	SPDI0100 <cr> SPDI0100.5<cr> request, set</cr></cr>	request, set	×	
Speed direction	SPDR	0,1 or 2	SPDR0, SPDR1	request,0=both,1=C0->C1, 2=C1->C0	×	
Speed Unit	SPU	0,1 or 2	SPU0, SPU1, SPU2	request,0=km/h, 1=mi/h, 2=m/s	×	
Speed minimum	SPMI	0000.1 to 9999.9 or 0001 to 9999 or ?	SPMI0000.1	set, request = SPMI0000.1 always XXXX.X	×	
Speed maximum	SPMX	0001.0 to 9999.9 or 0001 to 9999 or ?	SPMX0200.0	set, request = SPMX0200.0 always XXXX.X		
Speed Print Times	SPTI	0 cr 1	SPTI1, SPTI0	request, set	×	
Only for the communication with the OPTIC-device.	SP2	Only for the communication between the OPTIC and the Timy.				
Advanced subset of data-chain	TER		TERFFER			×
initialize the timy, gets HW-ID	TIMYINIT		TIMYINIT	gets the hardware-id of the Timy	X X X X X X X X X X X X	×
Delaytime for a specific channel	DTC	? Or #12.34 (while # = 0 to 8)	DTC401.78	request, set	×	
Direct transmission to printer	DTP	max. 24 characters	DTPHelloWorld	LOOK FURTHER BELOW	X X X X X X X X X X X X	×
cleares the memory	CLR		CLR		x	
enables or disables the checksum	CHK	2.0 or 1	CHK7.CHK1.CHK0	request, set	⊢	
send time every s or thenths or not	EMU	2 0 1 or 2	EMU2 EMU0 EMU2	request set		
send memory from nos a to h	d S d	aaaaahhhhh	PSPN0100100500	nets the memory from nos 10 to 500		
send memory from STN a to b	BSS	aaaaabbbbb	RSS0002000020	dets the memory form stn 20 (to 20)	+	
Send memory iniversal A	BSIIA	Caaaahhhh	PSI 1410010040	C=0 9 or A agaa=stnfrom hhhh=stn and	╋	
			All times having channel 1 and	All times having channel 1 and stn >= 10 and stn <=9999 are sent		
			RSUAA0000020	All times having stn <= 20 are sent.		
Send memory universal B	RSUB	Caaaaaaaabbbbbbbbbbbbbbbbbbbbbbbbbbbbbb		daytime from until daytime end	×	
			RSUBA000000000230000000	RSUBA0000000023000000( All times, having daytime <= 23.00.00000 are sent		
Special command	SPEC			request, set	×	
			SPEC?	SPEC:STOPWATCH:SA0\$B0\$C0		
		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$A1	start-bib will be sent to rs232/usb: "s1234cr>"		
		Timu to Timu connection mer PS232	SPEC STOPWATCH SAD	start-bib will not be sent default offer an undate		
This seemand sharid ha sant marineh		Time to Time connection and DC32		Autrological and a second and and an apartal		
This command should be sent over usb		Timy to Timy connection over RS232	SPECISIOPWAICH \$81	1 == SIAR1-BIB is accepted, in the format "#1234C0v"	at "#1234C0v"	
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$B2	2 == FINISH-BIB is accepted, in the forma	rt #1234C1V"	
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$B3	3 == START+FINISH BIB both are accepted	p	
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$C0	0 == default:no bib will be sent		
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$C1	1 == START-BIB will be sent		
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$C2	2 == FINISH-BIB will be sent		
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$C3	3 == START+FINISH BIB both will be sent		
		But the start-bib will only be sent, if the command was sent to the Timy once in advance "SPEC:STOPWATCH:\$A1 <cp-"< td=""><td>he Timy once in advance *SPEC:</td><td>STOPWATCH:\$A1 <cr>"</cr></td><td></td><td></td></cp-"<>	he Timy once in advance *SPEC:	STOPWATCH:\$A1 <cr>"</cr>		
synchronize the Timy	SYNA	hhimm:ss.zhtZ	SYNA12:00:00.0000	automatically sync	+	
	SYNM	hh:mm;ss.zhtZ	SYNM00:30:00.0000	manually sync, waits for sync-impulse	-	
	SYND	YY:MM:DD	SYND04-10-31	enter the sync date, takes only effect	xx	
				when SYNM is followed		
Send start time	SST	NNNN C0 hh:mm:ss.zhtZ RR	SST 1234 C0 12:34:56.7890 00	SST 1234 C0 12:34:56.7890 00 NNNN=Startnumber, hh=hour,mm=minutes	x	×
				ss=seconds, zhtZ=4 digits of second's fraction	tion	
				RR = always 00		
Direct transmission to printer	DTP	max. 100 characters	DTPHelloWorld		x x x x x x x x x	××
Show the list of the commands	HELP		HELP	Timy shows the list of the supported comn	x x x x x x x x x	××
	HELP	if the StatusValue is 0 or 0x0000 then the command is currently not supported	y not supported		Ħ	
atomicant houristata	0000 hourd					
curtax for command and parameter	ASCII					
Hardware Handehake	not huilt in later noesible (BTS/CTS)	(PTS/CTS)				
Software-Handshake	not built in later possible (XON/XOFF)	(XON/XOFF)				
command not supported	send back NOT					
command understood	send back the command without paramete	without parameter				
command with ?	send back the command with parameter	with parameter				
command not understood	send back nothing					
command with unvalid parameters	send back nothing					
safe communication						
If the pc has sent a command to the Timy, the pc has to wait for	for					
the acknowledge, before sending the next command.						
Acknowledge means that the sent command must be returned from the Timy.	d from the Timy.					
Each command can be sent by rs232 or USB.						
For programming the usb-interface, use only the Age-OCX-FII	le.					
Note: If you see <cr>&gt; at an example, please be aware that this is only one character not 4 characters.</cr>	s is only one character not 4	characters.				





# 3.3 RS232 Command Sequence

Syntax	Parameter	Example	Explanation	Description
BE	0 or 1	BE0 BE1BE?	Веер	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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