Version-E100322

Terminal



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1 Implementing and Keypad

Please use Timy manual GENERAL

1.1 Menu

Several standard menu-adjustments are described in the general manual for Timy. The special functions of Timy Terminal will be described in this manual.

2 Program Terminal

The program Terminal was developed in order to create an ideal input device for judges. The program Terminal is downward compatible to program Terminal-Computer of Comet. The new instruction set of Timy is however much more comprehensive and is described on the following sides.

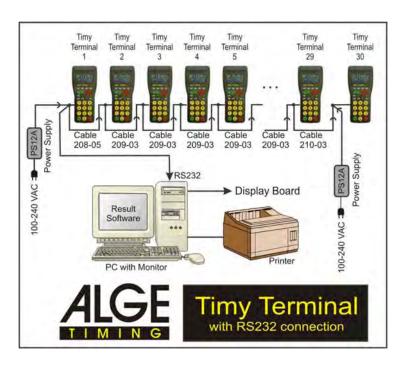
Depending on PC-Software, the user interface and operation of the Timy can be very different during the usage. Please get information of the producer of the software for the operation during an event.

2.1 General

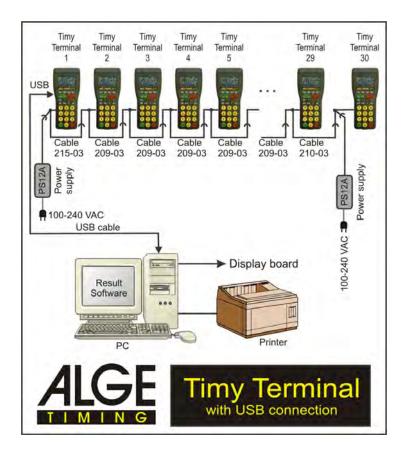
In one stream are <u>at most 35 TIMYS</u> possible. There is always 1 MASTER-TIMY and up to 34 SLAVE-TIMYS.



2.2 Timy Terminal RS232



2.3 Timy Terminal USB





2.4 Operation of program Terminal:

After switching-on the Timy, every Timy is basically SLAVE. The display shows "SHALL I BE THE MASTER? OK=YES"

Now you have to define which Timy is MASTER and which are the SLAVES.

You can define this in two ways, first the type is described, so that you can configure all TIMYS manually.

You can adjust the number of the Timy with "MENU"->"TERMINAL"->"ADDRESS".

You can also indicate, how many SLAVES will be available in the stream with

"MENU"->"TERMINAL"->"ANZ. SLAVES"

If this value is unequal zero, then this TIMY will be defined as MASTER. If this value is equal to zero, then this TIMY is defined as SLAVE.

For example: Data-stream with 5 TIMYS:

MASTER-TIMY: ->ADRESS = 01

->ANZ. SLAVES = 04

SLAVE: ->ADRESS = 02

->ANZ. SLAVES = 0

SLAVE: ->ADRESS = 03

->ANZ. SLAVES = 0

SLAVE: ->ADRESS = 04

->ANZ. SLAVES = 0

SLAVE: \rightarrow ADRESS = 05

->ANZ. SLAVES = 0

You can also configure the data-stream on another way:

Therefore you have to adjust all TIMYS as follows:

->ADRESSE = 0

->ANZ. SLAVES = 0

Now you can define the MASTER by pressing the OK-button at one TIMY.

Normally is every TIMY, which is connected to a PC, the MASTER.

You can also define MASTER, if the PC sends the command "TERLIST<cr>" to the MASTER-TIMY.

Thereupon the MASTER-TIMY will start with the numbering. (TERLIST, TER=TERMINAL, LIST=GET LIST)

If the MASTER-TIMY retrieved all SLAVES, the numbering starts. You must one time manually assign to every SLAVE one number. The MASTER sends to all TIMYS e.b. "ARE YOU NUMBER 04?" You have to press the OK-button at the Timy which is spoken to.

Go on like that until all TIMYS (including MASTER) are numbered.

Reconnection (= next implementing):



If the data-stream was correctly configured once, the MASTER-TIMY will start automatically with the buildup of the data-stream and can receive commands of the PC immediately.

2.5 RS232 communication with PC

The MASTER-TIMY is the link between PC and the other TIMYS. There are 2 instruction sets, one of the is backward compatible to the COMET-protocol, so that even existing PC-programs can work with the TIMY data-stream. The TIMY replaces the COMET.

The new instruction set is more comprehensive but easier to use. If more than 10 TIMYS are on the data-stream, it will automatically switch to the instruction set.

Old instruction set:

See instruction set for COMET data-stream Response of data-stream: "A 123456<cr>" data of TIMY 1 After the "A" will be 2 blanks.

New instruction set:

Response of data-stream "01 123456<cr>" data of TIMY 1 After the "01" will be 2 blanks.

All commands begin with "TER", enclosed is the 2-digit address of the TIMYS which will be spoken to. "FF" responds to all TIMYS.

The real command:

e.g. "TERFFER<cr>" reset all TIMYS

e.g. "TER04ER<cr>" reset TIMY 04 (simplification compared to the old instruction set).

e.g. "TERLIST<cr>" sole exception: With this command you can get the data of the data-stream of the MASTER

If the data-stream is not configured yet, you can also give commands to the MASTER-TIMY, which will build the data-stream. Afterwards the MASTER-TIMY will send the information to the PC.

Example:

The MASTER-TIMY has always the index "0". In the square bracket is the index (internal numbering), afterwards stands the outward visible number, following 1, if the TIMY is still in the stream, otherwise 0 if he was removed. At the end you can find the 12-digits hardware-serial number

TERMINAL[00]=01=1=000000003449

TERMINAL[01]=02=1=00000009a848

TERMINAL[02]=03=1=00000005e330

TERMINAL[03]=04=1=0000000990f6

TERMINAL[04]=05=1=0000000993db

TERMINAL[05]=06=1=000000099fcd

TERMINAL[06]=07=1=000000098990

TERMINAL[07]=08=1=00000008e399



Commands from the pc to the Master-Timy

Version V 1.4

from V 0971

Important: When the pc has sent a command to the Timy,

the pc has to wait for the exactly response of the sent command of the Timy before it sends the next command.

Despite the Master-Timy may have sent some Datas in the meanwhile, the pc has still wait for the response of the same command, which was sent before.

These	comm	nands	are fr	om an	older pc-program. Address	es from 1 to 10
M	R	C	<cr></cr>			Clear
M	Α	С	<cr></cr>			
M	R	S	<cr></cr>			Stop
M	С	S	<cr></cr>			
M	R	- 1			Hello Infotext <cr></cr>	Info
M	D		<2 bl	anks>	wrong Input <cr></cr>	
					40.1	_ ,
M	R	T	1	Α	<max. 16="" characters=""><cr></cr></max.>	Text
М	E	Т	2	<u> </u>	<max. 16="" characters=""><cr></cr></max.>	
		_				D (
M	R	E	R	<cr></cr>		Reset
М	В	Е	R	<cr></cr>		
NA.	R	_	-	_		Init
M		E	1 :	3	<cr></cr>	init
М	С	Е	-	3	<cr></cr>	
М	R	Е	С	3	<cr></cr>	Clear
M	C	Ē	C	3	<cr></cr>	Jicai
IAI				<u> </u>	7017	
М	R	Е	S	1	" 111 22 22 22 <cr>"</cr>	Set
М	С	Е	S	2	" 111 22 22 22 <cr>"</cr>	Set
M	R	В	<cr></cr>			Beep for 0,1 s
M	Α	В	<cr></cr>			Beep for 0,1s to Timy

The blue commands are from a new pc-program. Addresses from 1 to 99 By using this syntax it is possible to control up to 99 SLAVES.

TER is the new command

Address is FF for all Timys or an 2 digit address

TER F	F	C	<cr></cr>		Clear	blocks are set to zero
TER 0)1	C	<cr></cr>			messages from the pc are cleared
						data insertion is possible
TER F	F	S	<cr></cr>	Stop		
TER 0)3	S	<cr></cr>	data i	nsertion lo	cked, no sending to pc allowed
TER F	F	I	<2 blanks> Hallo Infotext<	<cr></cr>	Info. In t	he uppermost line is the info-text.
	FF 04	I I	<2 blanks> Hallo Infotext<2 blanks> falsche Eingal			he uppermost line is the info-text. west line is "GO ON WITH *"
TER 0)4	I I T1A		be <cr></cr>	In the lo	• •



TER	FF	ER	<cr></cr>			RESET	alle Blöcke und Texte löschen
ER	02	ER	<cr></cr>				
TER	FF	EI	3	<cr></cr>		INIT	Blocks to 0. BLANK and 0 means all blocks
TER	03	EI	3	<cr></cr>			Blocks to 0. 1 to 5 means block 1 to 5
TER	FF	EC	3	<cr></cr>		CLEAR	blocks to BLANK, the rest is like INIT
TER	03	EC	3	<cr></cr>			blocks to BLANK, the rest is like INIT
TER	FF	ES	1	" 111	22 22 22 <cr>"</cr>	SET	Line 1 or 2
TER	03	ES	2	" 111	22 22 22 <cr>"</cr>		

ER FF	F		choos	se the F	ONT			
TER FF	F	"OEM6_8 <cr>"</cr>	6	Pixel v	vidth	8	Pixel height	
	R FF F "OEM6_8 <cr>" 6 Pixe small letter max 8 lines R FF F "TIMES13<cr>" 8 Pixe small letter max 4 lines R FF F "TI8_10<cr>" 8 Pixe</cr></cr></cr>	letters a	allowed		All characters not same	width		
TER FF F "OEM6_8 <cr>" 6 Pixel width small letters allowed max 8 lines possible TER FF F "TIMES13<cr>" 8 Pixel width 13 Pixel height</cr></cr>								
TER FF	F	"TIMES13 <cr>"</cr>	8	Pixel v	vidth	13	Pixel height	
			small	letters a	allowed		All characters not same	width
			max 4	lines p	ossible			
TER FF	F	"TI8_10 <cr>"</cr>	8	Pixel v	vidth	10	Pixel height	
			No sm	nall lette	ers		All characters not same	width
			max 6	lines p	ossible			
TER FF	F	"OEM8_16 <cr>"</cr>	8	Pixel v	vidth	16	Pixel height	
			small	letters a	allowed		All characte	rs same width
			max 4	lines p	ossible			
ER FF	FLU	GSCHANZE557 <cr></cr>	a spec	cial inpu	ıt mask	will be	defined like this:	
			FI	La	Ou		FI=Flight, La=Landing,Ou	ı=Out
			0,0	0,0	0,0		max. 5,05,0	7,0
						20,0		20,0 max poir
			BIB	Send=	OK .		BIB 3 digits possible	
							after the komma only 0 o	r 5 allowed
ERLIST <cr></cr>	•	With this command the	e pc stai	rts the T	imy to b	ouild up	p the data chain.	
		Also a list will be sent	ti the pc					
		It can look like:						
_	_	1=1=00000005f74e		TERM	INAL[00)] is alv	ways the MASTER.	
_	_	2=1=00000008e978						
-	-	3=1=00000009e300						
_	_	4=1=00000009963f						
-	-	5=1=00000005f968		each li	ne is tei	rminate	ed with <cr></cr>	
_	_	6=1=00000008ef81						
_	_	7=1=00000008eefe						
ERMINAL[0	7]=0	8=1=00000005eb89						
		al number]=NUMBER:						

internal number	The internal number is without interest for the user.
NUMBER	This number can be entered in the menu on the Timy.
present	1 = present, 0 = absent
Hardware-ID	12-digits also visible in the info-menu



TER	WRIT	ΓE-NU	M:<2-digit	NUMBER> <cr></cr>	You can configure a Timy as a SLAVE
					and give it a NUMBER.
TER	FF	В	<cr></cr>		Beep for 0,1 s
TER		1 B	<cr></cr>		Beep for 0,1 s to Timy 1
TER	FF	X1	<cr></cr>	Message "Transn	nitting" appears after the OK-button was pressed.
TER	FF X	0 X0	<cr></cr>	default: After OK-	button was pressed, the screen remains unchanged
				After an Timy-Upo	date this feature is set to "X0".
DEN	UM <c< td=""><td>r></td><td>With this</td><td>command the data cha</td><td>in will be completely rebuilt</td></c<>	r>	With this	command the data cha	in will be completely rebuilt
			NOT yet	defined	

With the new command set the data chain can consist of up to 99 Timys. With the old command set the data chain can consist of up to 10 Timys.

With the new command set datas from eg. Timy 02 can be received. If you want to control Timy 02 you can do it with TER02<command><cr>.

With the old command set it was much more complicate and depended from the length of the data chain.

Answer from the data chain, when datas are sent.

TERMINAL

3	C 123456	03 123456	syntax of the new format
4	<d></d>	04 123456	
17	<q></q>	17 123456	only 1 to 9 with the
32	<'>	32 123456	old format senceful
99	<special charactor="" of="" td="" the<=""><td>ASCII set></td><td></td></special>	ASCII set>	
201/	-"Λ" 1 ι οργο		

If a SLAVE of the running chain is missed, the this message is sent from the master to the pc:

TIMY<2 blanks><2digits NUMBER of the missed SLAVE><missing><cr>

Eg. "TIMY 04 missing<cr>"

If the missed SLAVE is reconnected or a further SLAVE is added,

then the MASTER sends this message to the pc:

TIMY<2 blanks><2digits NUMBER of the missed SLAVE><present><cr>

Eg. "TIMY 04 present<cr>"

2.5.1 Interface data

RS 232 Interface Standard 9600 Baud 8 Data Bit, no Parity Bit, 1 Stop Bit ASCII signs

2.5.2 RS 232 instruction set

Look at pages 10 and 11.



Command set timy	V2.9	takes effect from V 09B3	19.11.2009	green=already built in			+	1	†			t
meaning	syntax	parameter	example	syntax description	Backup Stopwatch	Tracklimer	Training Light	Laptimer	Cyclestar	Speed	Nindspeed	Terminal
enter bib	1	4 digits	#1234	enters a bib over serial port or usb	×	×	×	×	×	×		†
enter bib	#	1234 <b.></b.> b.f.r>	#1234b #1234l	bib for blue/left parcour			Н		Н			Н
enter bib	42	1234 <b,l>></b,l>	#1234r	bib for red/right parcour			_		+	4		\forall
enter bib	Rt. 4	Only the person can condition that and then come firther commands are followers	#1234C0 #1234C1		×	1	+	1	+	+	I	\dagger
automatic fine min	AZN	HH-MI-SS	AZN12:00:00 AZN2	tes trainer		Ī	,	İ	+	>	I	Ť
sutomatic time max	AZX	HHMISS	AZX12:00:00 AZX?	request, set			× ×	İ	t	×		t
beep	BE	0001	BEO BE1BE?	request, on off	-	×	×	×	\vdash	×	×	t
User-Prog-Update	BWF		BWF	than update-file		Н	×	×	×	Н	×	Н
User-Prog-Update	USB-Timy BWFIIII		USB-TIMY:BWFIIII	than update-file	× ×	×	×	×	\rightarrow	×	×	+
Classement memorytime	CALMT		CALMT	Classement memorytime	×		+	1	+	4		\dagger
Classement untime	CALKI		CALKI	Classement runtime	× ,		+	İ	+	+	I	+
Classeriel California				Classellein Idalinie	*	t	+	t	+	\downarrow	I	†
Cyclestrot Copul 2	-245		500	signal 1 Shudh			H		H	L		T
Cycle start-signal 2	5//5		CHIERTS	STAN COL		Ī						П
Cyclinitati Cignal 3	- 1			NUMBER OF STREET			4		+	_		\forall
Cyclestart-Gloral 3	CY3.		13970	Algorithm Carlos District			+		+	4		1
Syde that countriownings				Property of SOII pay 2577.2			+	1	+	4	I	†
denias delectiones	DIT4	00 00	Di 1103 DI 112	and the state of t	,	,	>	,	,	>	I	Ť
display delayana	CTIO	60000	DITOSO DITOS	reduced sex	٠,	+	< >	< >	+	+	I	Ť
delautime finish and intermediate	DITE	90 93 95 90	DIEGO ON DIES	request set		+		< >	+	+	I	t
delayine start	DTS	00 01 10 59 99	DTS09 99 DTS7	reduest set	+	+	×	×	×	+		t
hulds up a Timo Timo consection	DIBECT	Only if 2 Times are connected cuera social rable. Timed sends this to Time 2 to hulld up a connection	ands this to Timy 2 to build up a conn	cotton		٠			+	+		t
Disconnect the Timy2Timy connection	SIG	Only if 2 Timys are connected over a sedal cable. Timy1 sends this to Timy 2 to disconnect	nds this to Timy 2 to disconnect.		* *		+	İ	$^{+}$	+	I	t
controls the prod Football	FOOTBALL					İ	+	İ	ľ	*		t
defines the channel pattern for Tim/OTimy connection	KAMI	Only for a Timy Timy connection can define which Timy can enable which channels	n enable which channels		*	İ	+	İ	+	_		t
KEYBOARD LOCK 777	· ·	0 or 1	KLO KL1 KL?	request, on off	×	×	×	×	×	×	×	t
Laptimer gaz mode	5	70,2	LAT LAR LA?	request,T=totaltime,R=laptime		۰	-	×	+	+		t
Subset of Timy-data-chain	Σ		MRER									u
Version of user-prog	NSF		NSF?	sends NSFV03B2	-	H	×	×	-	×	×	Г
ONLY the MODEM sends this	CARRIER		CARRIER	limy changes to binary mode	×	×	×	×	×	Н	×	Н
ONLY the MODEM sends this	CONNECT 9600		CONNECT 38400	timy changes to binary mode	×	×	×	×	\dashv	×	×	T
MODEM sends without CR	ŧ		:	timy changes to command mode	×	+	×	×	+	-	×	1
ONLY the MODEM sends this	NO CARRIER		NO CARRIER	disconnected	×	-	×	×	-	+	×	T
ONLY the MODEM sends this	NO DIALTONE		NO DIALTONE	modem sends the error-message	×	+	×	×	+	+	×	†
CNLY the MODEM sends this	S C		CHIN	mandam and franch the last annual and	× 1	+	× :	× ;	+	+	×	†
ONLY The MODEM sends this	ERROR		ERROR	modern cidn't confirm the last command	× ×	× ×	× ×	× >	× >	× >	×××	Ť
ONLY the MODEM sends this	АТН		ATH		×	+	×	×	╀	+	×	t
ONLY the MODEM sends this	ATX5c03		ATVScO3	modern has set to rts/cts-handshake	×	+	×	×	+	+	×	t
ONLY the MODEM sends this	REVISION		REVISION	modem is present	×	-	×	×	\vdash	-	×	t
ONLY the MODEM sends this	NPL-1		NPL-1	modern is present	×	H	×	×	Н	Н	×	Н
ONLY the MODEM sends this	RING		RING	timy answers with ATA <cr></cr>	×	×	×	×	×	×	×	\dagger
ONLY the GPS-Device sends this	PGRMF	only the gos-device can send this data-string in order to synchronize the timy to the exactly daytime tonly the dos-device can send this data-string in order to synchronize the timy to the exactly daytime	ichronize the timy to the exactly days	He He			+	İ	$^{+}$	\perp	I	Ť
precision	PRE	0.1.2.3 oder 4	PRE0 PRE7	0=Sec. 1=Tenth 4=TenThousandth	×	×	×	×	×	×		t
PRINTER-AUTO-LF	PRIAF	0109	PRI_AF3	Printer AutoLineFeed 0 to 9	×	-	×	×		×		t
PRINTER	PRINTER	000	PRINTERO, PRINTER1	request, on off	×	\rightarrow	×	×	×	×	×	\forall
pki	PRI	001	PRIO PRIT PRIZ	request, on off	×	+	× :	×	+	+	×	\dagger
print a lineteed	THE PRICE		PRILE	200	× 3	+	× :	×	+	+	×	†
print the rodo	PRIM		PRIM	portin memory	× ×	× ×	× ×	× ×	< ×	× ×	×	Ť
Ignore timing impulses to print	PRIIGN	0 or 1	PRIIGNO, PRIIGN1, PRIIGN?	set off, set on, request	-	٠	×	×	+	Н		t
print start	PS	000	PS0 PS1 PS7	request, on off			1		+	⊬		t
name of the current active program	PROG	0	PROG?	what's the current program ?	×	×	×	×		×	×	×
		answer PROG: Name <cr></cr>	The name of the active program	may differ.	×		×	×	×	×	×	×
		answer PROG: <cr></cr>	No program was choosen yet.		×	Н	×	×	Н	Н	×	×
		answer PROG: COMMANDER, SUB: SubName <cr></cr>		COMMANDER has many sub programs		+			-	×		Н
rounding	RR	0,1 or 2	RRO RR1 RR2 RR7	request, 0=Cut, 1=Up, 2=Round	×	×	×	×	×	+	-	†
rszsz baudrate	RSBD	24,40,30,13,01,38	RSBUSB RSBU	request, set	× >	+	× >	× >	+	× >	×	Ť
minima at re222	Tana	è	orana trana	seria memory to iscos	4	+	<	ĸ	+	+		†
runtime at rs232	Koki	0 or 1	RSRIT, RSRID		×		-				-	-



running tenth	RT	0 or 1	RT0 RT1 RT2	request, on off	×			ŀ	F		_	_	_	•
stn automatic for finish	SAF	0,1 or 2	SAF0 SAF1 SAF2	request, 0 = off,1=start,2=finish		×		H				H	×	F
stn automatic for start	SAS	0,1 or 2	SAS0 SAS1 SAS2	request 0 = off,1=Up,2=Down		×					×	Н	×	
START_LOGO	SL	0 or 1	SL0 SL1 SL7	request, on off	×		×	×	×	×	×		×	.
second mode	SM	0 or 1	SM0 SM1 SM2	request, set		×	-	+	4	1	+	+	×	Ų.
Speed distance in meters	IOAS	00000.1 to 9999.9 or 0001 to 9999 or 7	SPDI0100-cr> SPDI0100.5-cr> request, set	request, set		1		+	1	+	× >	+	+	
Speed Unit	SPU	0.1 or 2	SPU0. SPU1. SPU2	request 0=km/h. 1=mi/h. 2=m/s			-	t	I	t	(×	+	\perp	Т
Speed minimum	SPMI	0000 1 to 9999.9 or 0001 to 9999 or 7	SPM10000.1	set, request = SPMI0000.1 always XXXX.X	×			H	L	T	×	╀	╀	Т
Speed maximum	SPMX	0001.0 to 9999.9 or 0001 to 9999 or 7	SPMX0200.0	set, request = SPMX0200.0 always XXXX.X	×						×	H	H	
Speed Print Times	SPTI	001	SPTH, SPTI0	request, set							×	Н	Н	П
Only for the communication with the OPTIC-device.	SP2	Only for the communication between the OPTIC and the Timy	TEDECED			+		+	1	\dagger	+	>	+	$\overline{}$
AUVAILLEGU SULDSET OF LINE TO THE LINE TO THE LINE TO THE LINE TO	TIMOMIT		THANKIT	note the backupes id of the Trees	,	,	,	3	,	,	,	<	,	
Delauline for a coerific channel	DIC	2 Or #12 34 (while # = 0 to 8)	DICARI ZA	persune real and and and and and and and and and and	+	+	+	<	+	<	<	+	*	Ţ
Direct transmission to printer	DID	max 24 characters	DTPHelloWorld	LOOK FURTHER BELOW	* *	×	×	×	×	×	×	×	×	T.
cleares the memory	CLR		CLR		+	+	+		+			-	+	
enables or disables the checksum	CHK	7,0 or 1	CHK7,CHK1,CHK0	request, set	H			H		T	╁	╀	L	Т
send time every s or thenths or not	EMU	2,0,1 or 2	EMU?, EMU0, EMU2	request, set	×			H				\vdash	H	
send memory from pos, a to b	RSP	assaabbbbb	RSP0001000500	gets the memory from pos 10 to 500	×			H			H	H	L	
send memory from STN a to b	RSS	aaaaappppp	RSS0002000020	gets the memory form stn 20 (to 20)	×			H			H	┝	L	Т
Send memory universal A	RSUA	Caaaabbbb	RSUA100109999	C=09 or A.aaaa=stnfrom.bbbb=stn_end		×		H	L	T	H	⊦	L	Т
			All times, having channel 1 and	All times, having channel 1 and stn >= 10 and stn <=99999 are sent. All times having th <= 20 are sent.		+		+	\perp	T	+	+	4	
Send memory universal B	RSUB	Саяваяваврирововор		daytime_from until daytime_end		×		Н	П	Ħ	Н	Н	Н	
The second secon			RSUBA60000000000230000000	(All times, having daytime <= 23:00:00.000	0 are sent						Н	Н	Н	
Special command	SPEC		Specia	request, set		×			\perp		+	+	+	
		Timy to Timy connection over BS232	SPEC:STOPWATCH:\$A1	start-bib will be sent to rs232/usb: "s1234cr>"	.0		ŀ	t	ļ	Ť	+	+	\perp	Т
		Timy to Timy connection over RS232	SPEC-STOPWATCH-\$A0	start-bib will not be sent, default after an undate	pdate			t	Į	t	ł	╀	╀	Т
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$B0	0 == default not bib is accepted over an TIMY2TIMY-connection	MY2TIMY-	connectio	6	t	ļ	t	+	+	+	Т
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$B1	1 == START-BIB is accepted, in the format "#1234C0v"	at "#1234C0	N-		H			H	H	H	Т
This command should be sent over usb		Timy to Timy connection over RS232	SPEC;STOPWATCH:\$B2	2 == FINISH-BIB is accepted, in the format "#1234C1V"	1"#1234C1			H	L	t	H	╀	L	Т
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$83	3 == START+FINISH BIB both are accepted	pa			H			H	H	H	
This command should be sent over usb		Timy to Timy connection over RS232	SPEC:STOPWATCH:\$C0	0 == default:no bib will be sent							Н	Н	Н	
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				+	1	1	+	+	4	
This command should be sent over usb		Timy to Timy connection over RS232 3 == START+FINISH B But the start-bit will only be sent if the command was sent to the Timy once in advance "SDEC STODIMATOH SALARS"	SPEC:STOPWATCH:SC3	3 == START+FINISH BIB both will be sent		+	-	+	1	Ť	+	+	+	Т
synchronize the Timy	SYNA		SYNA12:00:00:0000	automatically sync	×	t	ŀ	t	I	t	╁	╀	╀	Т
	SYNM	hh.mm.ss.zhlZ	SYNM00:30:00:0000	manually sync, waits for sync-impulse	×			H	L	T	H	┝	H	
	SYND	YY:MM:DD	SYND04-10-31	enter the synd date, takes only effect	×							Н	Н	
	100		200	when SYNM is followed	1		1	+	1	1	+	+	- 1	1
Send start time	200	NNNN CO hh.mm.ss.zhtz RK	SSI 1234 C0 12:34:56,7890 00	SSI 1234 CO 12:54:56,7890 OO NNNN=Starbumber, hh=hour,mm=minutes	50	×	1	+	1	†	+	+	*	υT
				RR = always 00	1010		1	+	Ţ	Ť	$^{+}$	+	+	Т
Direct transmission to printer	DTP	max, 100 characters	DTPHelloWorld		+	-	+	×	+	×	×	*	+	
Show the list of the commands	HELP HELP	HELP if the StatusValue is 0 or 0x0000 then the command is currently not supported	HELP tly not supported	Timy shows the list of the supported comn x	×	×	×	×	×	×	×	×	×	u
									\prod		+	+	4	
standard baudrate	9600 baud					t	1	+	ļ	T	+	+	\perp	Т
syntax for command and parameter	ASCII													
Hardware-Handshake	not built in, later possible (RTS/CTS)	e (RTS/CTS)									Н	Н	Н	
Software-Handshake	not built in, later possible (XON/XOFF)	e (XON/XOFF)				+		+	1	\dagger	+	+	+	\top
command not supported	send back NOT							t	L	T	+	+	+	Т
command understood	send back the command without parameter	3 without parameter						t	L	İ	H	╀	H	Т
command with ?	send back the command with parameter	d with parameter									H	H	H	
command not understood	send back nothing											H	H	
command with unvalid parameters	send back nothing					1		+	1		+	+	+	
Safe communication						+	-	$^{+}$	Ţ	Ť	+	+	+	Т
If the pc has sent a command to the Timy, the pc has to wait for	, oc							t	L	T	H	╀	H	Т
the acknowledge, before sending the next command.											Н	Н	Н	
Acknowledge means that the sent command must be returned	d from the Timy.							+	_		+	+	+	
Each command can be sent by rs232 or USB.						t	-	+	1	t	+	+	+	Т
For programming the usb-interface, use only the Alge-OCX-File	le.							H	L	T	+	╀	╀	Т
								H			H	H	H	
Note: If you see <cr> at an example, please be aware that this is only one character not 4 characters.</cr>	s is only one character not	4 characters.								П	Н	H	H	
								l	l	l	l	ł	1	ı

