

# *Timy* Terminal



**ALGE**  
**T I M I N G**

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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 at most 35 TIMYS possible.  
There is always 1 MASTER-TIMY and up to 34 SLAVE-TIMYS.

## 2.2 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:             ->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.

## Kommunikation mit dem PC per RS232

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
    
```

### 2.2.1 Interface data

RS 232 Interface

Standard 38.400 Baud (adjustable: 2400, 4800, 9600, 19200, 38400)

8 Data Bit, no Parity Bit, 1 Stop Bit

ASCII signs

### 2.2.2 RS 232 instruction set

Syntax	Parameter	Example	Explanation	Description
BE	0 or 1	BE0 BE1 BE?	Beep	Inquiry
BWF		BWF	Update of program – RS232	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	Inquiry, command
DIT2	00 – 99	DIT299 DIT2 ?	Display time 2 in display	Inquiry, command
DTF	00.01 – 59.99	DTF00.03 DTF ?	Dead time for finish and interm. Time	Inquiry, command
DTS	00.01 – 59.99	DTS09.99 DTS?	Dead time for start	Inquiry, command
KL	0 or 1	KL0 KL1 KL?	Keyboard interlock	Inquiry, 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	Switch-on/off of printer	Inquiry, on/off
PRILF		RPILF	Line feed for printer	Command
PRILU		PRIL0	Print of ALGE-logo	Command
PRIM		PRIM	Prints storage	Prints storage
RSM		RSM	Send storage via RS232	Storage on RS232
SL	0 or 1	SL0 SL1 SL?	Print of ALGE-logo (switch-on)	Inquiry, on/off
TIMY INIT		TIMY INIT	Output of TIMY hardware serial-number	Not specified