Timy

PC-Timer

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1 Keyboard

The Timy has a water-resistant silicone-keyboard. This keyboard is perfect for outdoor use
The keys are as big as the small device allows it and they have a perfect pressure-feeling.

Function keys: Depending on the program these keys have different functions. The function is always described above the key in the LCD-screen.

START/ON: This key is used for manual start impulses and to turn on your Timy.

STOP/OFF: This key is used for manual stop impulses and to turn off your Timy.

Printer: This button is as paper feed button (only for model P and PXE). With the button 2nd and ⬭ you get into the printer menu.

2nd: This button enables the 2nd function of many other keys.

Menu: With this button you get into the main-menu

CLEAR: Key to clear. Depending on the program you are using you need additional to the CLR key the red or green OK button to clear the desired time.

Cursor: With the cursor keys you can navigate through the menu.

Green OK: Mainly used to confirm the start numbers for the start side. But you can also confirm any menu functions with this button.

Green OK: Mainly used to confirm the start numbers for the finish side. But you can also confirm any menu functions with this button.

2 Getting started

2.1 Turn ON-OFF

2.1.1 Turn on

☞ press the START-button, on the display appears „Really turn on?"
☞ press the green OK-button within 10 seconds,
   otherwise the Timy will switch off automatically.
☞ Choose with the cursor buttons the desired program and confirm with
   OK. Depending on the used program you have to follow the menu.
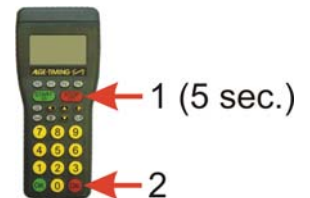   See manual for your program.

2.1.2 Turn off

You can turn off your Timy in 2 ways.

Way 1:

☞ press the STOP-key for about 5 seconds, on the display appears
   "Really turn off?"
☞ press the red OK-button within 10 seconds,
   otherwise the Timy will switch back to the program-mode.

☞
Way 2:

☞ press the 2nd key and the STOP-key, on the display appears
   "Really turn off?"
☞ press the red OK-button within 10 seconds,
   otherwise the Timy will switch back to the program-mode.

2.2 Menu

All standard menu settings are described in the general manual of the Timy. Please refer to the general Timy manual!

3 Program PC-Timer

The Timy with program PC-Timer is a very strong combination together with a PC. The Timy does the exact time keeping and transfers the this to the PC. The PC does only data processing.

The program PC-Timer has a RS 232 output of the running time every 1/10 second. If the Timy receives an timing impulse it outputs such data between the running time strings.

The impulse string includes time of day, a ID-number (continuous or input), and timing channel information.

Otherwise the Timy works as in program Backup.

3.1   RS 232 Interface

3.1.1 Interface Data

RS 232 Interface
38.400 Baud (not adjustable!!!)
8 Data Bit, no Parity Bit, 1 Stop Bit
ASCII Characters
Output of running time in 1/10 second interval, between output of timing impulses.

```
B####bCxxbHH:MM:SS:zhtq(CR)        Impulse Time
HH:MM:SS.z(CR)                     Running Time
```

B .... blank
.... continuous ID number or BIB
Cxx .... channel (see below, if only 2 characters the third is a 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 = keyboard
Channel 1	C1	Precision 1/10.000
Channel 1M	C1M	Precision 1/100 – manual = keyboard
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

3.1.2 Protocol of RS 232-Interface:

```
07:50:40.0                              Running time in hours, min, sec, and 1/10 sec
07:50:40.1                              Running time in hours, min, sec, and 1/10 sec
07:50:40.2                              Running time in hours, min, sec, and 1/10 sec
 0033 C0  07:50:40.2828 00             Impulse 33 from channel 0
07:50:40.3                              Running time in hours, min, sec, and 1/10 sec
07:50:40.4                              Running time in hours, min, sec, and 1/10 sec
07:50:40.5                              Running time in hours, min, sec, and 1/10 sec
 0034 C1  07:50:40.5015 00             Impulse 34 from channel 1
07:50:40.6                              Running time in hours, min, sec, and 1/10 sec
07:50:40.7                              Running time in hours, min, sec, and 1/10 sec
 0035 C3  07:50:40.7863 00             Impulse 35 from channel 3
07:50:40.8                              Running time in hours, min, sec, and 1/10 sec
07:50:40.9                              Running time in hours, min, sec, and 1/10 sec
07:50:41.0                              Running time in hours, min, sec, and 1/10 sec
07:50:41.1                              Running time in hours, min, sec, and 1/10 sec
07:50:41.2                              Running time in hours, min, sec, and 1/10 sec
07:50:41.3                              Running time in hours, min, sec, and 1/10 sec
07:50:41.4                              Running time in hours, min, sec, and 1/10 sec
07:50:41.5                              Running time in hours, min, sec, and 1/10 sec
 0036 C5  07:50:41.5175 00             Impulse 36 from channel 5
07:50:41.6                              Running time in hours, min, sec, and 1/10 sec
 0037 C4  07:50:41.6536 00             Impulse 37 from channel 4
07:50:41.7                              Running time in hours, min, sec, and 1/10 sec
07:50:41.8                              Running time in hours, min, sec, and 1/10 sec
 0038 C6  07:50:41.83   00             Impulse 38 from channel 1
07:50:41.9                              Running time in hours, min, sec, and 1/10 sec
 0039 C7  07:50:41.94   00             Impulse 39 from channel 1
07:50:42.0                              Running time in hours, min, sec, and 1/10 sec
07:50:42.1                              Running time in hours, min, sec, and 1/10 sec
 0040 C8  07:50:42.17   00             Impulse 40 from channel 1
07:50:42.2                              Running time in hours, min, sec, and 1/10 sec
07:50:42.3                              Running time in hours, min, sec, and 1/10 sec
 0041 C0M 07:50:42.40   00             Impulse, 41 Channel 0, manual
07:50:42.4                              Running time in hours, min, sec, and 1/10 sec
 0042 C1M 07:50:42.46   00             Impulse 42, Channel 1, manual
07:50:42.5                              Running time in hours, min, sec, and 1/10 sec
 0043 C0M 07:50:42.57   00             Impulse 43, Channel 0, manual
07:50:42.6                              Running time in hours, min, sec, and 1/10 sec
 0044 C1M 07:50:42.66   00             Impulse 44, Channel 1, manual
07:50:42.7                              Running time in hours, min, sec, and 1/10 sec
 0045 C0M 07:50:42.75   00             Impulse 45, Channel 0, manual
 0046 C1  07:50:42.7661 00             Impulse 46 from channel 1
07:50:42.8                              Running time in hours, min, sec, and 1/10 sec
 0047 C1M 07:50:42.84   00             Impulse 47, Channel 1, manual
07:50:42.9                              Running time in hours, min, sec, and 1/10 sec
 0048 C1  07:50:42.9058 00             Impulse 48 from channel 1
 0049 C0M 07:50:42.94   00             Impulse 49 from channel 1
07:50:43.0                              Running time in hours, min, sec, and 1/10 sec
 0050 C1M 07:50:43.03   00             Impulse 50, Channel 1, manual
 0051 C1  07:50:43.0321 00             Impulse 51 from channel 1
```

```
 0052 C0M 07:50:43.10    00          Impulse 52, Channel 0, manual
07:50:43.1                           Running time in hours, min, sec, and 1/10 sec
07:50:43.2                           Running time in hours, min, sec, and 1/10 sec
07:50:43.3                           Running time in hours, min, sec, and 1/10 sec
07:50:43.4                           Running time in hours, min, sec, and 1/10 sec
07:50:43.5                           Running time in hours, min, sec, and 1/10 sec
07:50:43.6                           Running time in hours, min, sec, and 1/10 sec
07:50:43.7                           Running time in hours, min, sec, and 1/10 sec
07:50:43.8                           Running time in hours, min, sec, and 1/10 sec
07:50:43.9                           Running time in hours, min, sec, and 1/10 sec
07:50:44.0                           Running time in hours, min, sec, and 1/10 sec
07:50:44.1                           Running time in hours, min, sec, and 1/10 sec
```

3.1.3 RS 232 Commands

Syntax	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?	Print of ALGE logo (switch on)	Request, on/off
TIMYINIT		TIMYINIT	Output of Timy hardware number	Not specified