

Timmy

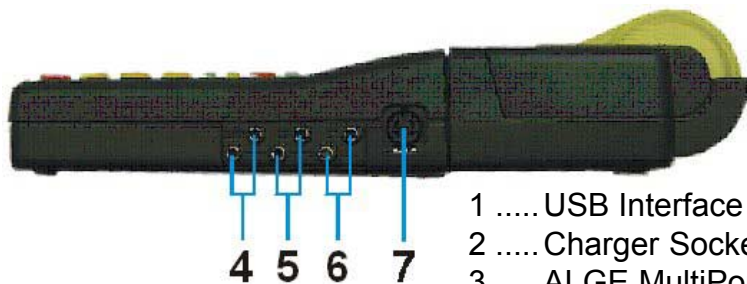
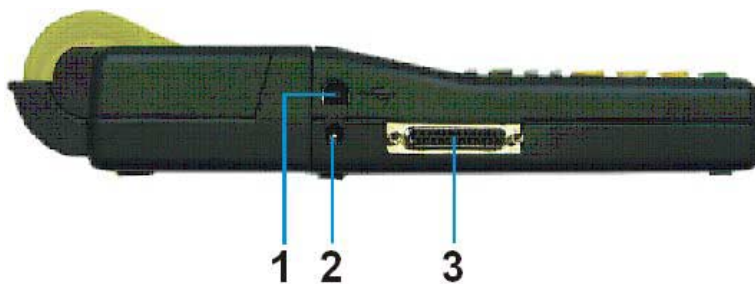
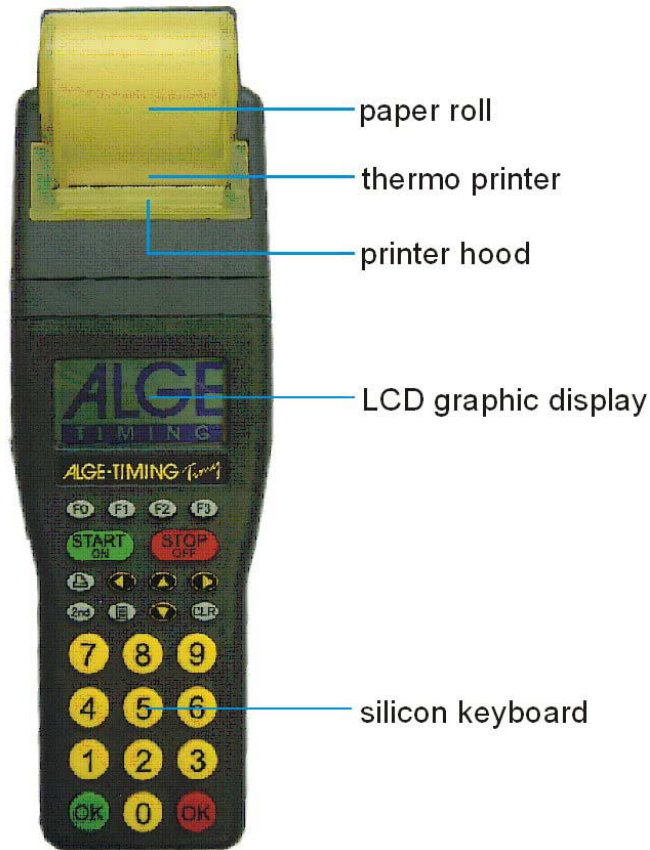


ALGE

TIMING

English

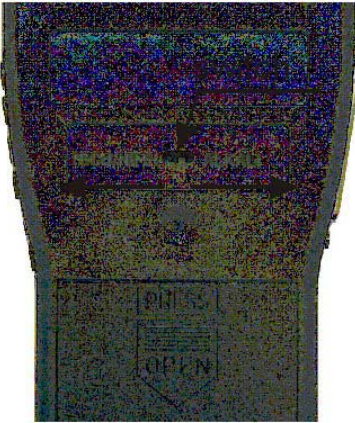
Control Elements



- 1 USB Interface
- 2 Charger Socket
- 3 ALGE MultiPort
- 4 Connection for Display Board
- 5 Connection for Start Impulse Device (c0)
- 6 Connection for Finish Impulse Device (c1)
- 7 Standard ALGE-Lichtschrankenbuchse



NiCd-Batteries
or
NiMH-Batteries



Alkaline Batteries

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Technical modifications remain reserved in sense of improvement!

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1. Device Description

The *ALGE Timy* is a handy device, fully loaded with high-quality technology. This makes it unique in its class.

During the evolution, highest attention to the operating convenience and the ergonomic was placed. The old ALGE values, as highest reliability and robust design, also entered besides in the Timy. Newest technology was packed in a special designed case made for timing only, which makes the Timy unique.

In spite of the bulk measurement, the Timy owns a big and well operable silicone keyboard. In any weather condition, even with gloves, one can operate the keyboard easily. In the case of the types Timy P and Timy PXE a printer is integrated in the Timy and records the entire race.

Of course the Timy is also equipped with the necessary interfaces for communication with external devices. It has a interface for display boards, a RS 232 interface for communication with a PC, a RS 485 interface to make a network of timing devices, and finally as world novelty a future proof USB interface.

The memory of the Timy is also gigantic. It can store up to 13.000 times. All memory times can be scrolled on the display, or transmitted to a PC by RS 232 or USB interface.

Timy Models:

There are four different models of the Timy available:



Timy S:

The Timy S is a timer or terminal without printer. It has a standard quartz that does the timing with quartz accuracy. The display works down to about -5°C (23 F) and we do not recommend this model for winter outdoor use.

Timy XE:

The Timy XE is a timer without printer. It has a temperature compensated quartz oscillator for time measurement with the highest precision and an extended temperature range for operational use down to -20°C (-4 F).



Timy P:

The Timy P is a timer or terminal with integrated printer. It has a standard quartz that does the timing with quartz accuracy. The display works down to about -5°C (23 F) and we do not recommend this model for winter outdoor use.

Timy PXE:

The Timy PXE is a timer with integrated printer. It has a temperature compensated quartz oscillator for time measurement with the highest precision and an extended temperature range for operational use down to -20°C (-4 F).

Timy Software

It is possible to use different software for the Timy. Every licensed software you can update from the internet. In order to activate software it is necessary to buy it. When you buy the software you will get a user code. This user code you can get at your local **ALGE** -dealer.

At the moment we have not all programs ready. Ask your **ALGE** dealer for available software.

Backup:	timer to measure time of day
Stopwatch L:	simple timing program (net time)
Stopwatch:	universal timing program (net time/total time)
MultiTimer:	universal timing network for two or more Timy
Test:	for tests with up to 7 intermediate times
Training:	automatic ski training software
Speed:	speed measurement (1 to 9999 m)
Calculator:	to calculate net times and total times
Terminal:	terminal for judges (e.g. ski jumping, diving, ...)
Commander:	terminal to control a display board

2. Operating

2.1. Power Supply:

The Timy has many possibilities for the power supply:

External Supply (+8 to 15 VDC):

- Power Supply NG13A (Socket 2 of Timy)
- Power Supply NG13 (Socket 7 of Timy)
- External Battery (e.g. 12 Lead-acid accumulator connected to Socket 2 or 7)

Internal Power Supply:

The Timy has a battery compartment that holds 6 AA-batteries. You can select between different batteries.

- *Alkaline Batteries:* only for Timy without internal printer
- *NiCd-Rechargeable Batteries:* for all operations at low temperatures (below freezing)
- *NiMH-Rechargeable Batteries:* for operations that do not happen at low temperatures (below freezing)

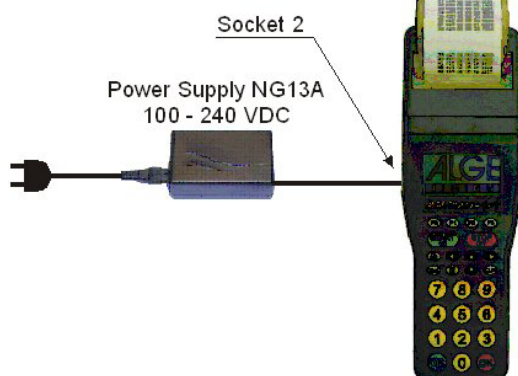
2.1.1. External Supply:

A external supply of the Timy from +8 to 15 VDC is possible. The ALGE NG13A is the ideal external power supply, since it keeps the DIN-socket for the photocell free. Also the ALGE NG13 works with the Timy.

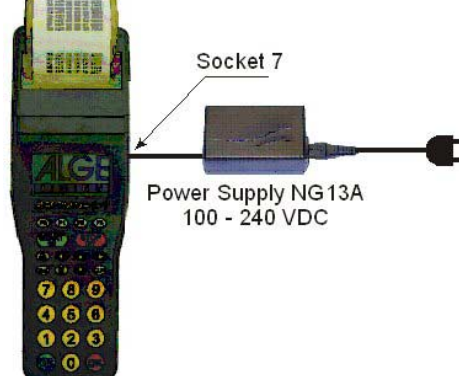
It is not allowed to use the NLG8 and NLG4 since the power output is too high and it might destroy the Timy.

If the external supply is 11.5 VDC or higher integrated rechargeable batteries will be charged.

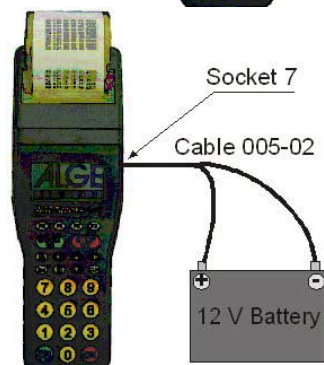
Power Supply NG13A:



Power Supply NG13:



External Battery:



2.1.2. Internal Supply:

The Timy work of internal batteries (6 x Type AA). Please select new batteries very careful, after reading this section.



Timy P or Timy PXE:
Use of Timy freezing temperatures:

never use Alkaline Batteries
use NiCd-rechargeable batteries, since Alkaline batteries and also NiMH rechargeable batteries are very bad at freezing temperatures (they loose most of the capacity).

Battery-Types:

Alkaline Batteries:

This battery type you cannot use for a Timy with a built in printer. Also at cold temperatures Alkaline batteries are not suitable. At -20°C (-4F) there is only a capacity of about 10% left.

If you use the Timy very often we also do not recommend this battery, since the costs for new batteries are high and it is cheaper to use rechargeable batteries. Further it is better for the environment to use rechargeable batteries.

NiCd-Rechargeable Batteries:

This battery we recommend when the Timy is used in cold temperatures. The NiCd rechargeable battery is available with different capacity. We recommend the 1000 mAh type.

For use at less than 5°C (41F) and if you use a Timy with build in printer no other battery than the NiCd are recommended.

NiMH- Rechargeable Batteries:

This rechargeable battery we recommend at temperatures below 5°C (41F). At low temperatures the NiCd have more capacity, but a room temperatures NiMH batteries have up to 1.5 times more capacity.

Loading Rechargeable Batteries:

You can load the rechargeable battery with the Power Supply NG13A or NG13. During the charging you can have the battery in the Timy. Charging is also possible during normal operation (during a race).

If the Timy is not switched on when charging it will show the following message on the display „External Power Supply exists! Press „START“ to reset“. This means that the batteries get charged, in order to restart the Timy press the <START> key.

The charging duration depends on the rechargeable battery type::

- NiCd- Battery with 1 Ah: about 14 hours
- NiMH- Battery with 1,5 Ah: about 18 hours

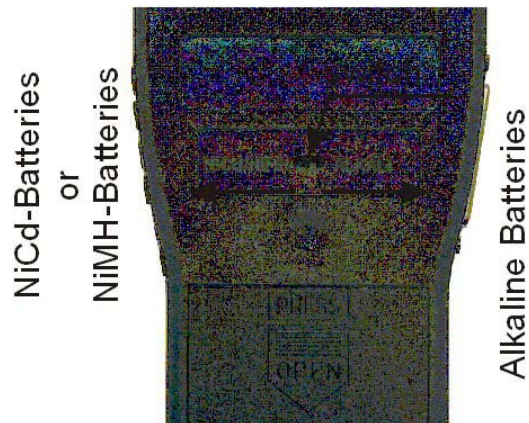
If you want to charge the rechargeable batteries faster we can recommend you the table charger LG6AA (this charger you can get at your **ALGE**-dealer. With this charger you have to take the batteries out of the Timy. It makes it possible to use a set of batteries and charge at the same time another set.

Charger-Switch:

The Timy has a switch (covered from the battery-sticker). This switch allows you to select, if you have rechargeable batteries or not rechargeable batteries (Alkaline).

For **Alkaline batteries** it is necessary that the charger switch is <ALKALI>. If you load Alkaline batteries they will be destroyed and may leak. The acid may than destroy the complete Timy.

When using **rechargeable batteries (NiCd or NiMH)** you must select the charger-switch position on <NiCd/NiMH>. If you have it on <ALKALI> the batteries will be never loaded when you connect the charging device (e.g. NG13A).



Attention: Use no Alkaline batteries in the Timy, if you switch on <NiCd/NiMH>

Operating Duration:

The operating duration depends on the Timy type, the battery type, and the temperature.

2.2. Printer:

The Timy printer is a thermo printer. It needs special thermo paper. The best printing quality you will have with the original ALGE-paper. This paper you can recognize at the ALGE-Logo on the backside.

The printer is very user friendly. The printing head does not move and the printer roll is attached to the printer hood. This means for the change of paper that you have only to open the printer hood, input the new paper, put the paper through the paper opening, and close the paper hood.

The printer works fast and silent. With external power supply it prints up to 6 lines per second, when using the internal battery it will still make 4 lines per second.



hold yellow printer hood and push it up

take the empty paper roll out, insert the paper axle in the new paper roll



insert the new paper roll, so that the paper comes out in the front

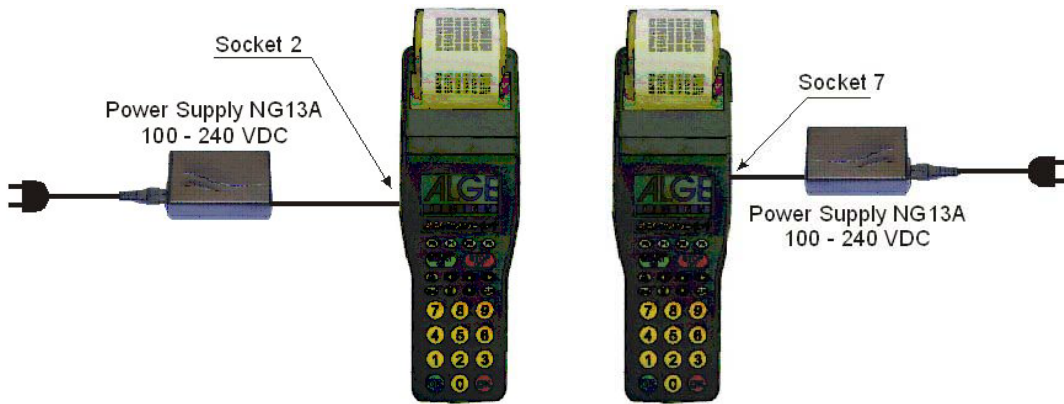
feed the paper through the paper opening

close the printer hood and press it with two fingers down

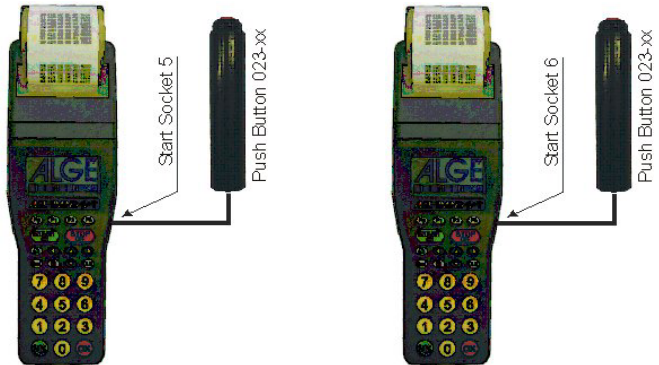
2.3. Connection with External Devices:



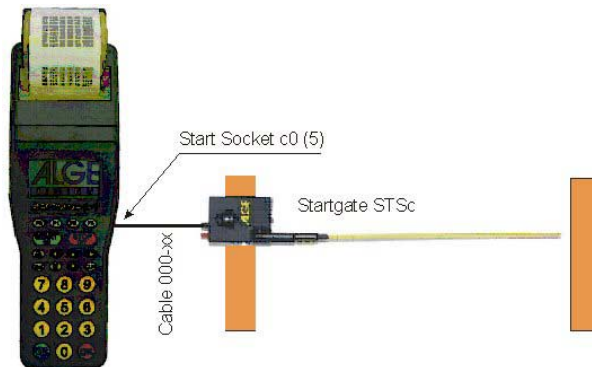
Power Supply NG13A or NG13:



Push Button 023-02 or 023-10:

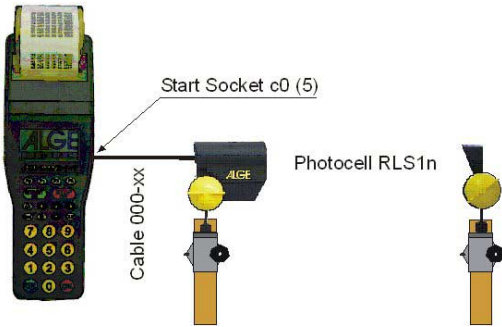


Startgate STSc:

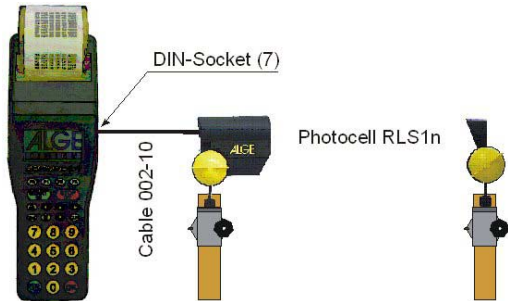


Photocell RLS1n:

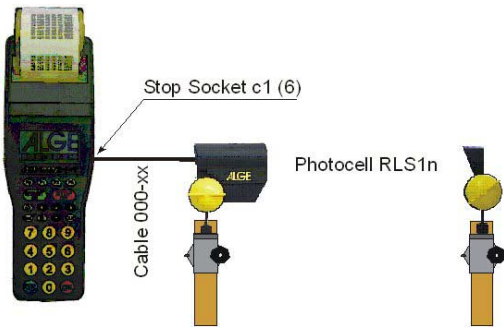
Photocell at the Start with 2-wire Banana Cable:



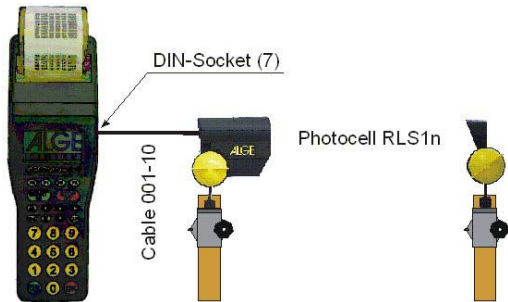
Photocell at the Start with Cable 002-10:



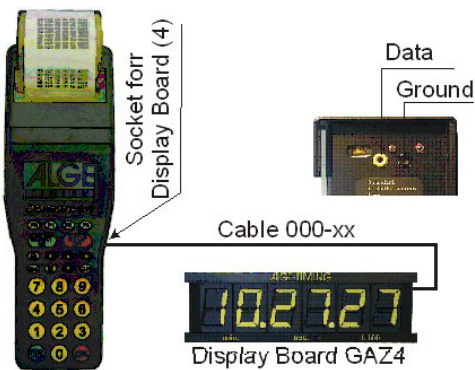
Photocell at the Finish with 2-wire Banana Cable:



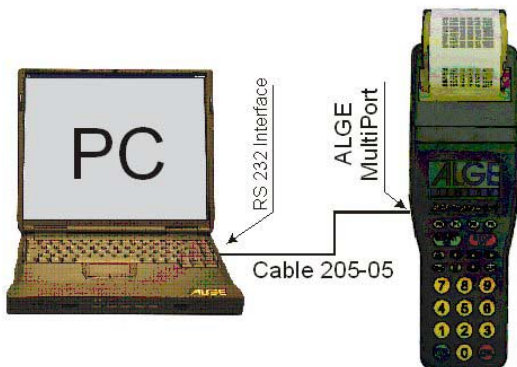
Photocell at the Finish with Cable 001-10:



Display Board GAZ4:



PC-Connection - RS 232:



2.4. Timig Channels:

The Timy has 9 independent timing channels. Through the RS 485 interface we can extend the channels up to 99.

2.4.1. Delay Times and Block Times:

the variable delay- and block times make sure that you have a trouble free race, this means that you have no double impulses and do not miss impulses. You can adjust the delay- and block- time in the menu.

2.4.1.1. Delay Time:

The delay time is the time after the end of an impulse in which the timing device does not take another impulse from the same channel (e.g. a cross country runner could trigger the photocell with both legs – this should be prevented by the delay time). You can adjust the delay times in the menu. The delay time can be sparate adjusted for the start channel c0 and all other channels.

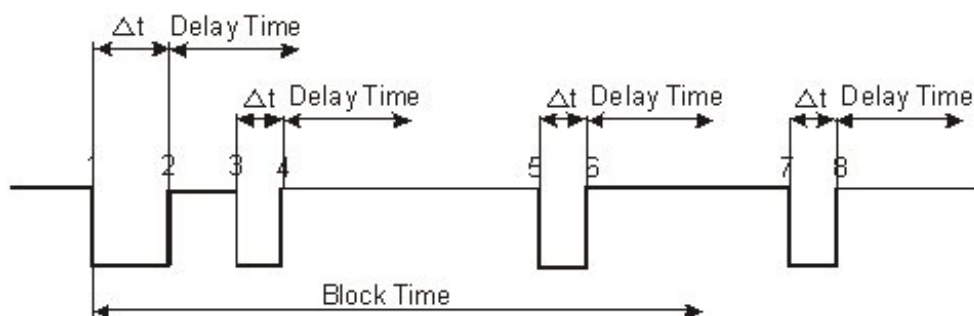
Factory Setting: Start Channel c0 = 0,1 s
Stop Channel c1 to c9 = 0,1 s

2.4.1.2. Block Time:

The block time is the theoretical minimum time delay between two valid impulses on the same channel. Impulses within the block time are stored and printed but marked as non valid. The block time is only used in some Timy programs.

e.g. for a interval start of 30 seconds the theoretical block time is then about 20 seconds.

2.4.1.3. Schematic Presentation of the Delay Time and Block Time:



Δttiming channel triggers

1timing channel triggers – valid time goes to memory – block time starts

2end of the impulse – delay time starts

3timing channel is triggers during the delay time – no impulse registration

4end of the timing impulse – delay time starts again

5timing channel is triggered during the block time – a non valid time goes to the memory

6end of the impulse – delay time starts

7timing channel triggers – non valid time goes to the memory – block time starts

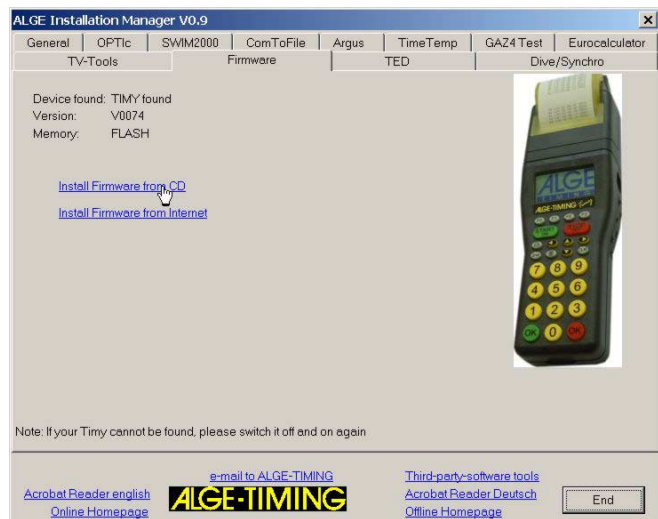
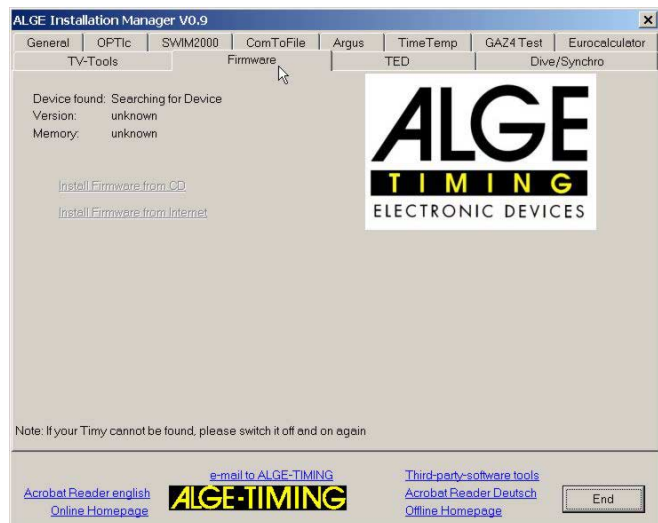
2.5. Timy-Update:

It is possible to update the Timy software without any costs from the internet www.alge-timing.com. In case of no internet connection please contact your ALGE representative.

It is only possible to update licensed software. To not licensed software (software that you did not buy) you will have no access. In order to have additional software available you need a code. This code you can get from your ALGE -dealer.

Update:

- Click on the ALGE-Homepage www.alge-timing.com on „Download“.
- Click on „Software for ALGE-devices with Flash-Technology“
- If you do the first update you have to download the „install manager“ first, then the „Timy flash update“
- Start the Install Manager
- Switch the Timy on
- Click in the Install Manager on „Firmware“
- Wait until the Install-Manger finds the Timy (it shows the picture of the Timy)
- Select „Timy update from CD“
- Give the right path to the downloaded timy file
- Start update



2.6. Software registration:

This function is not available yet!

2.7. Select Language:


This function is not available yet!

2.8. Memory:

The memory of the Timy can hold about 12.000 times. When switching the Timy on it is possible to clear the memory. The display will always inform you about the amount of used and empty memory space.



2.9. Info-Mode:

If you press at the same time <2nd> and , then you reach the Info-Mode. In the Info-Mode you can get important system data about the Timy.

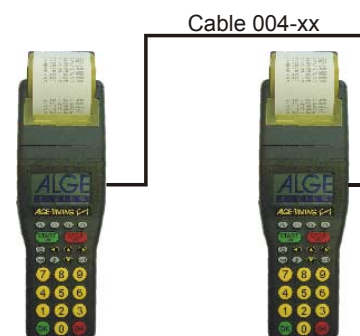
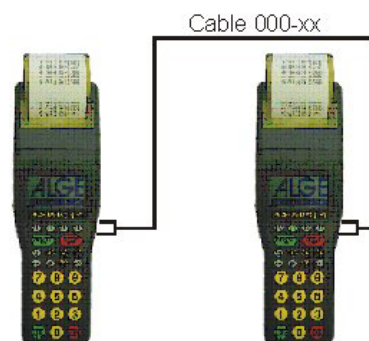
- ☞ External Power Supply – Yes or No
- ☞ Timy program version
- ☞ Timy boot version
- ☞ Internal battery voltage
- ☞ Timy voltage for power out
- ☞ Integrated printer or no integrated printer
- ☞ Impulse channel condition (co, c1, c2 und c3)



2.10. Synchronisation:

To synchronize the Timy you have to do the following:

- ☞ connect Timy with cable 000-xx or 004-xx with the other timing device(s)
- ☞ switch Timy on
- ☞ decide if you want to clear or keep the data in the memory
- ☞ If the Timy display shows „SYNC-TIME“ you have the option:
 - shown time and date is correct:
 - press key <OK> (green or red) or <F0>. The sync-impulse is given automatically at the next full minute
 - shown time and/or date must be corrected:
 - press key <F3> and input the correct time and date (confirm always with <OK>)
 - synchron start with key <START> or through external impulse from channel 0



2.11. Menu-Adjustments:

This function is not available yet!

2.12. Precision:

The precision you can select depending on the program between 1s and 1/10.000 s. Independent from the selected precision the time of day is always taken with the highest precision. This is necessary to calculate the net times correct.

Example:

Start Time:	10:00:00.9999	10:00:00
Finish Time:	10:01:00.0000	10:01:00
Laufzeit:	0:59.0001	1:00

If you record the time of day only in 1 second precision, than you get as run time 1:00 minutes. This means that you have an error of 0,9999 seconds. This is prevented with a high precision time of day.

For the calculated run times we cut the digits off, that we do not need (no rounding).

3. Programs

At the moment we have the following programs available:

Backup: timer to measure time of day for back up or precise time base for PC

Soon we will offer you the following Software:

Stopwatch L: simple timing program (net time)
Stopwatch: universal timing program (net time/total time)
MultiTimer: universal timing network for two or more Timy
Test: for tests with up to 7 intermediate times
Training: automatic ski training software
Speed: speed measurement (1 to 9999 m)
Calculator: to calculate net times and total times
Terminal: terminal for judges (e.g. ski jumping, diving, ...)
Commander: terminal to control a display board

4. Accessory

NiCd-Battery-Set TY-NC1:

includes a set of 6 NiCd rechargeable batteries with 1,0 Ah each

NiMH-Battery-Set TY-NM:

includes a set of 6 NiMH rechargeable batteries with 1,5 Ah each

Power Supply NG13A:

to supply the Timy from the mains or to charge the internal rechargeable batteries

Thermo Paper RTP:

roll of paper for the internal printer or printer P5-25

Docking Station TIDO:

external Docking Station with separate connections for all 9 channels, built in speech amplifier, RS 232 interface, RS 485 interface, etc.

Push Button 023-xx:

for manual start or finish impulses

Startgate STSc:

startgate for skiing - ask your ALGE representative for different models

Photocell RLS1n:

photocell with transmitter/receiver unit and separate reflector for distances between 1,5 to about 25 m

Photocell RLS1nd:

photocell with separate transmitter and receiver unit for distances up to about 100 m

Photocell RLS3c:

Three-Fold-Photocell for athletic or other options

Startmicrophone SM8:

start detection through the sound of a start gun, to screw on the start gun

Display Board GAZ4:

display board available in different sizes, configurations to show the time, or ID-number and time

15 cm Digit reading distance of about 60 m

25 cm Digit reading distance of about 100 m

45 cm Digit reading distance of about 160 m

Printer P5-25:

protocol printer to connect at the Timy (only usable with external power supply)

Speech Amplifier:

to add at the start-impulse-line in order to be able to communicate through the same cable between start and finish:

Speech Amplifier SV4: simple speech amplifier

Speech Amplifier SV4-S: speech amplifier with switch to turn the microphone on or off

Speech Amplifier SV4-SM: speech amplifier with switch to turn the microphone on or off and connection for a Startmicrophone SM8

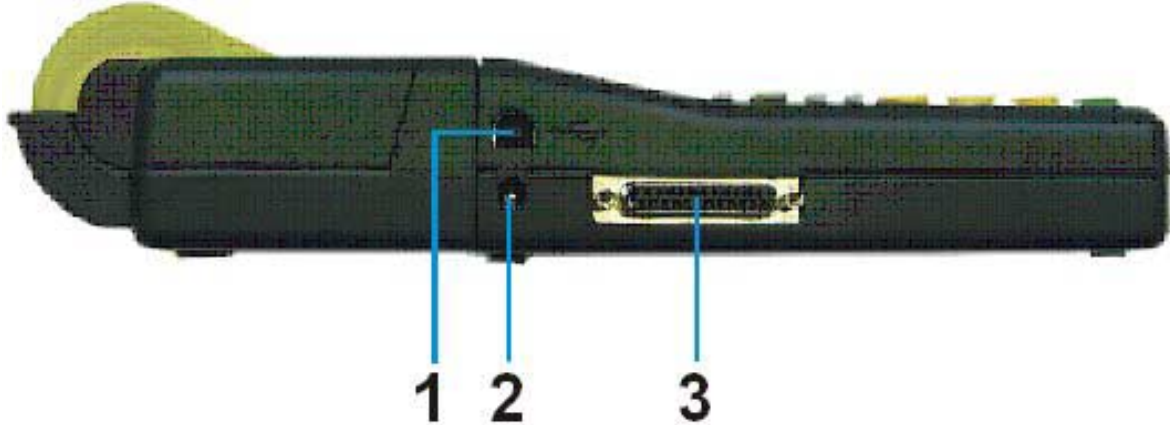
Headset Q34:

for speech communication between start and finish

5. Technical Data

Processor:	Siemens C161 with 3,3 V technology
Crystal Frequency:	12,8 MHz with TCXO or standard quartz
Time Resolution:	1/10.000 s
Accuracy:	Temperature Compensated Quartz Oscillator TCXO: Temperature Range -25 to 50 °C (-13 to 122 F): +/- 2,5ppm (+/- 0,009 s/h) <i>Aging:</i> max. +/- 1 ppm per year <i>At 25°C (77 F) trimmed:</i> +/- 0,1 ppm Standard Quartz: Temperature Range -25 to 50 °C (-13 to 122 F): +/- 50 ppm (+/- 0,18 s/h) <i>Aging:</i> max. +/- 5 ppm per year <i>At 25°C (77 F) trimmed:</i> +/- 0,1 ppm
Program Memory:	FLASH Memory with 8 MBit
Data Memory:	RAM with 2 MBit (about 12.000 times)
Display:	monochrome LCD graphic display , 128 x 64 pixel, available with standard- or with extended temperature range
Keyboard:	silicon keyboard, 26 keys
Connections:	1 x DIN-socket for photocell (7) 1 x banana socket pair – start input (5) 1 x banana socket pair - finish input (6) 1 x banana socket pair – display board (4) 1 x D-Sub 25-pin (3) <ul style="list-style-type: none"> • 9 timing channels • RS 232 (PC-connection) • display board • RS 485 (network) • power supply (7–15 VDC out) 1 x USB (1) 1 x power supply (7 - 15 VDC in) (2)
Channel Extension:	per extension 8 channels, max. 99 channels
Power Supply:	Internal: 6 x AA-Alkaline 6 x 2 Ah or 6 x AA-NiCd 6 x 1 Ah or 6 x AA-NiMH 6 x 1,5 Ah External: Power Supply NG13, 12 V battery or 7-15 VDC
Power Consumption:	data given at 20°C (68 F) Alkali: without printer about 50 hours NiCd: without printer about 25 hours NiMH: without printer about 38 hours Alkali: not possible with printer NiCd: about 3000 lines NiMH: about 4500 lines
Charging Duration:	depending on the rechargeable battery, max. about 14 hours
Printer:	graphic thermo printer, max. 5 lines per sec.
Temperature Range:	Timy S and P: -5 to 60°C (23 to 140 F) Timy XE and PXE: -20 to 60°C (-4 to 140 F)
Measurements:	Timy S and XE: 204 x 91 x 50 mm Timy P and PXE: 307 x 91 x 65 mm
Weight:	Timy S and XE: 450 g (no battery) Timy P and PXE: 650 g (no battery and paper)

5.1. Connection System:

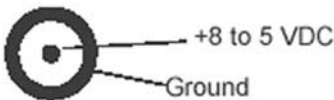


USB-Interface (1):

The USB-interface is a interface for data handling between Timy and PC. All data you can call through this interface, or you can remote control the Timy from the PC through this interface.

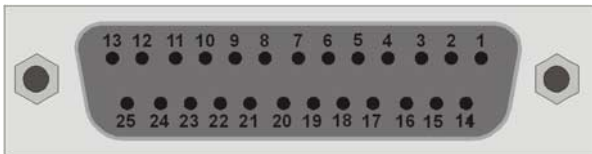
Since there is no software driver for the PC-side available it will not be possible to use the USB interface at the moment.

Power Supply Connection (2):



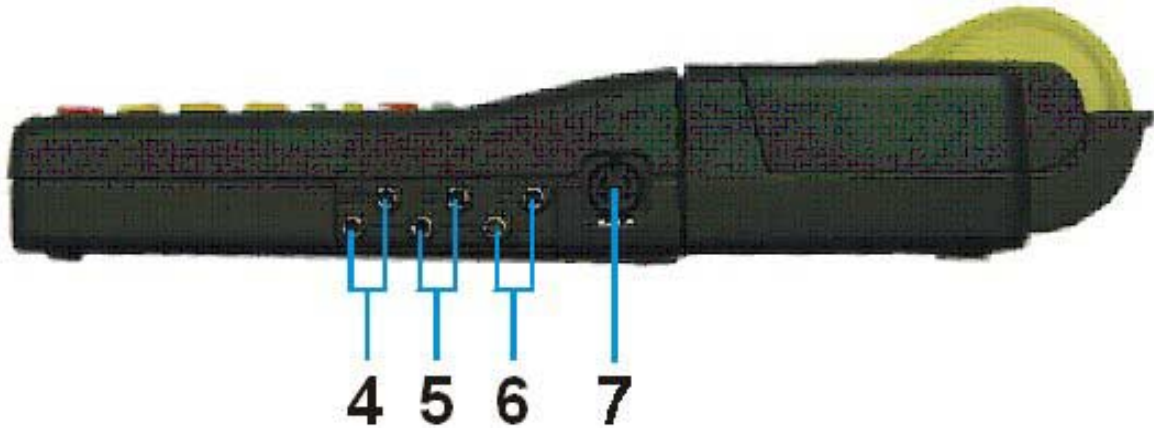
ALGE-MultiPort (3):

This connector includes the following:



Pinout:

- | | |
|------------------------------------|---|
| 1 Code for Terminals | 14 c1 Finish Channel |
| 2 c0 Start Channel | 15 c5 Timing Channel 5 |
| 3 c2 Timing Channel 2 | 16 c8 Timing Channel 8 |
| 4 c3 Timing Channel 3 | 17 c6 Timing Channel 6 |
| 5 c7 Timing Channel 7 | 18 c4 Timing Channel 4 |
| 6 Data output for GAZ | 19 RS232 RTS |
| 7 RS485B | 20 Data output for Printer |
| 8 RS485A | 21 Speaker 8 Ω |
| 9 CLK Clock for Terminals | 22 RS232 CTS |
| 10 RS232 TX | 23 Output Voltage +7,5 to 14.5 VDC |
| 11 RS232 RX | 24 Common Ground (GND) |
| 12 Common Ground (GND) | 25 Input Voltage +8-15VDC |
| 13 Output stab. Voltage (+5V) | |



**Banana-Socket for
Display Board GAZ (4):**

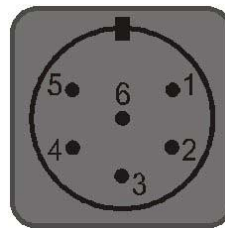
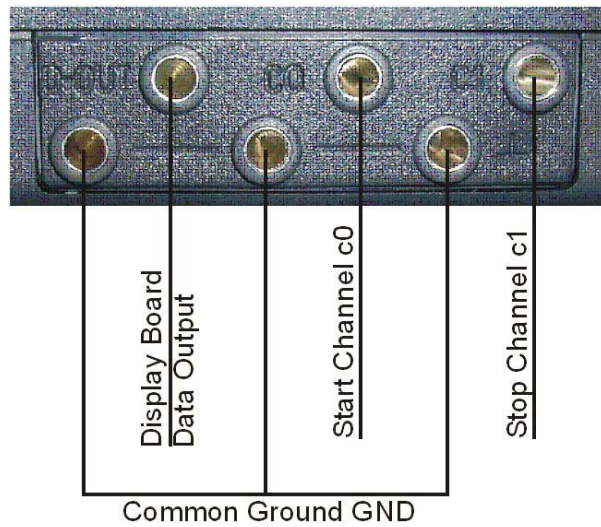
**Banana-Socket for
Start Channel (5):**

**Banana-Socket for
Stop Channel (6):**

Photocell Socket (7):

Pin Out:

- 1 c0 . Start-Channel
- 2 c1 . Stop-Channel
- 3 GND Common Ground
- 4 +Ua Power supply input (8-15VDC)
- 5 +5V stab. Voltage out (+5 VDC)
- 6 C2. Intermediate Time Channel



5.2. Interfaces:

5.2.1. RS 232 Interface:

Transfer Format: 1 start bit, 8 data bit, no parity bit, 1 stop bit
Transfer Speed: 9600 Baud factory adjustment
adjustable: 2400, 4800, 19200, 28800, 38400
Transfer Protocol: ASCII

yNNNNxCCCxHH:MM:SS.zhtq(CR)

y first character is a space or info (see bellow)
x blank
NNNN start number (four digits), zero at the beginning are not shown
CCC channels of the timing device
c0 channel 0 start channel
c0M channel 0 manual triggered through keyboard <START>
c1 channel 1 finish channel
c1M channel 1 manual triggered through keyboard <STOP>
c2 channel 2
c3 channel 3
c4 channel 4
c5 channel 5
c6 channel 6
c7 channel 7
c8 channel 8
RT run time
TT total time
SQ sequential time
kmh speed measurement (possible units: km/h, mps, mph)
HH:MM:SS.zhtq time in hours, minutes, seconds, and 1/10,000 seconds
(CR) Carriage Return

Info – the following characters are possible at the first digit:

x blank
? time without valid ID-number
m time in memory
c cleared time (e.g. with <CLEAR> key)
d disqualified time
i manual time input
n input of new ID-number

Example of the RS 232 output (e.g. with program "Backup")

1 c0 15:43:49,8863	m 8 c1 15:44:00,2849
2 c0 15:43:50,1647	m 9 c0 15:44:00,5499
5 c1 15:43:51,6464	m 10 c1 15:44:00,8182
6 c0 15:43:51,9669	m 11 c0 15:44:01,0366
7 c1 15:43:52,2467	c 11 c0 15:44:01,0366
8 c0 15:43:52,4579	n 14 c0 15:44:01,0366
9 c1 15:43:52,6941	20 c0 15:44:15,0077
15 c0M 15:43:55,6200	22 c0 15:44:15,5165
16 c1M 15:43:55,8800	23 c1 15:44:15,7847
17 c0M 15:43:56,4900	c 23 c1 15:44:15,7847
m 7 c0 15:43:59,9927	i 23 c1 15:44:15,7847

5.2.2. RS 485 Interface:

This function is not available yet!

5.2.3. Interface for Display Board:

Transfer Format: 1 start bit, 8 data bit, no parity bit, 1 stop bit
Transfer Speed: 2,400 Baud factory adjustment (standard baud rate for ALGE-GAZ4)
 adjustable: 2400, 4800, 19200, 28800, 38400
Transfer Protocol: ASCII

NNN .xxxxxxxxxM:SSxxxx (CR)	running time (without 1/10 sec.)
NNN .xxxxxHH:MM:SSxxxx (CR)	running time (without 1/10 sec.)
NNN .xxxxxHH:MM:SS.zxx (CR)	running time (without 1/10 sec.)
NNNCxxxxxHH:MM:SS.zhtRR (CR)	channel c1 finish time with rank
NNNCxxxxxHH:MM:SS.zhtxx (CR)	channel c1 finish time without rank
NNNDxxxxxHH:MM:SS.zhtRR (CR)	channel c1 total time with rank
NNNDxxxxxHH:MM:SS.zhtxx (CR)	channel c1 total time without rank
NNNAxxxxxHH:MM:SS.zhtRR (CR)	channel c2 1st intermediate time
NNNBxxxxxHH:MM:SS.zhtRR (CR)	channel c3 2nd intermediate time
NNNExxxxxHH:MM:SS.zhtRR (CR)	channel c4 3rd intermediate time
NNNFxxxxxHH:MM:SS.zhtRR (CR)	channel c5 4th intermediate time
NNNGxxxxxHH:MM:SS.zhtRR (CR)	channel c6 5th intermediate time
NNNHxxxxxHH:MM:SS.zhtRR (CR)	channel c7 6th intermediate time
NNNIxxxxxHH:MM:SS.zhtRR (CR)	channel c8 7th intermediate time
NNNSxxx©xxxxsxss.ssxRR (CR)	speed

NNN ID-number (hunderts-, tenths- and single, digit 1 to 3)
 a point on the fourth sign is a identification for a running time
 HH:MM:SS.zht time in hours, minutes, seconds, and 1/1000 seconds
 © speed measurement: the following ASCII character output:
 01 Hex. for km/h, 02 Hex for m/s, 03 Hex. for mph
 RR rank
 x blank
 (CR)..... carriage return

5.2.4. USB-Interface:

This function is not available yet!