

# TIDO

ALGE-TIMING



Manual

## 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](http://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.

### 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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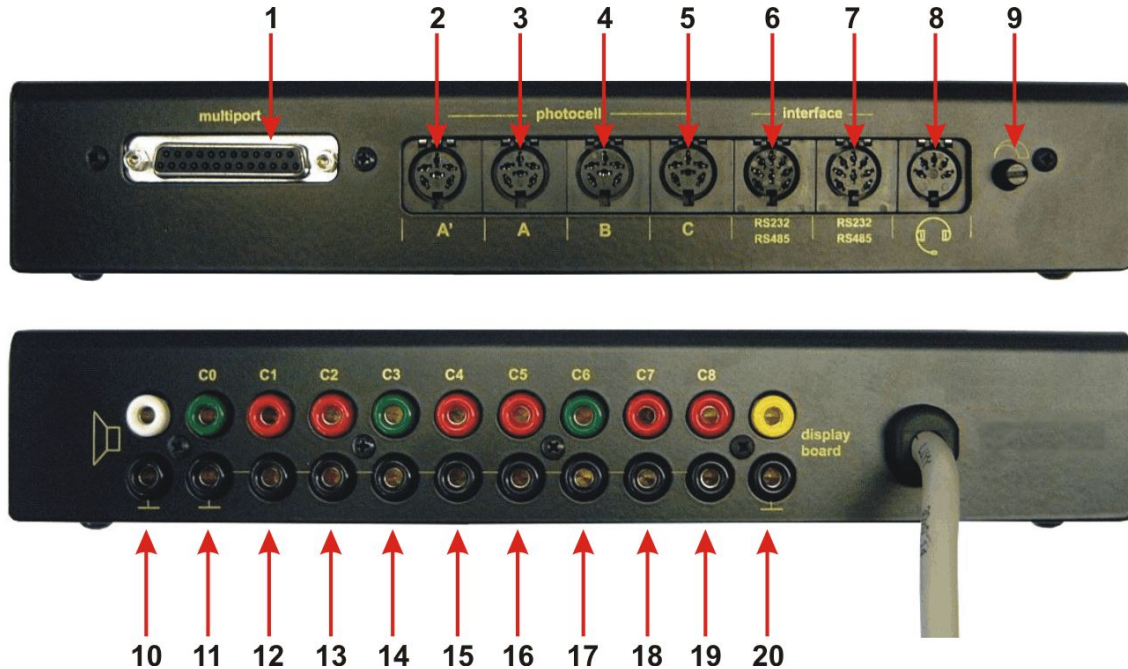
### Subject to changes!

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The TIDO will be connected to the Multiport of the Timy. The TIDO has all connections as sockets available that you only have on a TDC. Additionally the TIDO has a built-in speech amplifier that allows you to connect the headset for a speech connection to the start.

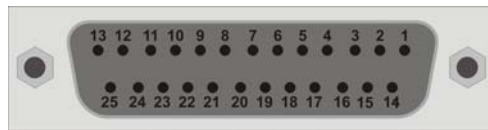
You have to use the TIDO for a fix cable installation, so you can connect the TIDO with the permanent wires all the time. When you arrange a race you just have to bring the Timy and connect it at the TIDO.

The TIDO has the following connections:



- 1 ..... Multiport (same as TIMY, e.g. to connect the standard RS232 cable for the Timy)
- 2+3 ... DIN-socket for photocell with channel 0, 1, and 2 and power supply for photocell
- 4 ..... DIN-socket for photocell with channel 3, 4, and 5 and power supply for photocell
- 5 ..... DIN-socket for photocell with channel 6, 7, and 8 and power supply for photocell
- 6+7 ... DIN-socket for RS 232 interface (PC) and RS 485
- 8 ..... DIN-socket for headset
- 9 ..... Lever for volume of headset
- 10 ..... Pair of banana socket to connect a speaker (output)
- 11 ..... Pair of banana socket, channel 0, with speechamplifier
- 12 ..... Pair of banana socket, channel 1, with speechamplifier
- 13 ..... Pair of banana socket, channel 2, with speechamplifier
- 14 ..... Pair of banana socket, channel 3, with speechamplifier
- 15 ..... Pair of banana socket, channel 4, with speechamplifier
- 16 ..... Pair of banana socket, channel 5, with speechamplifier
- 17 ..... Pair of banana socket, channel 6, with speechamplifier
- 18 ..... Pair of banana socket, channel 7, with speechamplifier
- 19 ..... Pair of banana socket, channel 8, with speechamplifier
- 20 ..... Pair of banana socket, display board output

## Multiport (1)



### Pin Out:

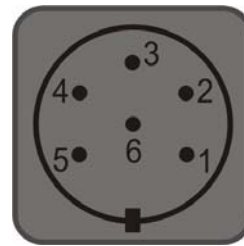
- 1 ..... Code for Terminals
- 2 ..... c0 ..... Start Channel
- 3 ..... c2 ..... Timing Channel 2
- 4 ..... c3 ..... Timing Channel 3
- 5 ..... c7 ..... Timing Channel 7
- 6 ..... Data output for GAZ
- 7 ..... RS485B
- 8 ..... RS485A
- 9 ..... CLK Clock for Terminals
- 10 ... RS232 TX
- 11 ... RS232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

**DIN-Plug for Photocells:****Pin Out for Photocell A and A' (2 and 3)**

- 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

**Pin Out for Photocell B (4)**

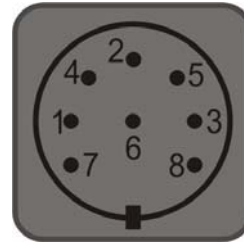
- 1 ..... c3 ... Start-Channel
- 2 ..... c4 ... Stop-Channel
- 3 ..... GND Common Ground
- 4 ..... +Ua Power supply input (8-15VDC)
- 5 ..... +5V stab. Voltage out (+5 VDC)
- 6 ..... c5 ... Intermediate Time Channel

**Pin Out for Photocell C (5)**

- 1 ..... c6 ... Start-Channel
- 2 ..... c7 ... Stop-Channel
- 3 ..... GND Common Ground
- 4 ..... +Ua Power supply input (8-15VDC)
- 5 ..... +5V stab. Voltage out (+5 VDC)
- 6 ..... c8 ... Intermediate Time Channel

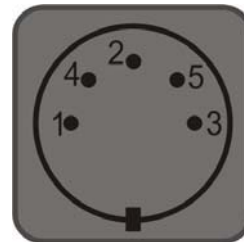
## Interface RS 232 and RS 485 (6 and 7):

- 1 ..... RS 232, Data TXD (transmit)
- 2 ..... RS 232, Common Ground
- 3 ..... RS 232, Data RXD (receive)
- 4 ..... RS 232, CTS
- 5 ..... RS 232, RTS
- 6 ..... RS 485, Line a
- 7 ..... RS 232, Output external supply
- 8 ..... RS 485, Line b



## Headset Connection (8):

- 1 ..... microphone of headset
- 2 ..... common ground
- 3 ..... loud speaker of headset
- 4 ..... common ground
- 5 ..... input channel 9



## Power Supply:

The TIDO does not need a power supply or batteries. The TIDO can be supplied by the Timy directly. In case you want to have power supply output on pin 4 of the photocell DIN-connectors, than you need a external power supply at the TIDO. Suitable as external power supply is the **ALGE** power supply PS12 connected at one of the photocell DIN-sockets.

