For all Times:

TdC 8001

ALGE
TIMING

Timedata Computer TdC 8001

Racing into the Future

Finally, the answer to your dreams. The Timedata Computer TdC 8001 is the one of the most rugged and weather resistant printing timers ever produced. Imagine having to time a race sitting in a tent during any type of bad weather. The TdC 8001 can take it! The super accurate TCXO quartz along with hardened circuitry allows full operation from -25 °C to 50 °C (-10 F to 122 F). Specially designed LCD displays for running time and data edit-ing are visible in all light levels and work in-stantly. The professional looking attache case with built in rechargeable battery pack is made of scuff resistant materials.

ALGE's leadership in the sports timing world is well established. The TdC 8001 is the result of constant feedback from all levels of sport. Our TdC 4000 series has now handed over the lead to a most worthy successor. Look around your venue. You never have to worry if you in-vest in the TdC 8001 and matching accesso-ries.

Useful Features include:

- Built in software for all types of popular timed sports, please see insert
- Total printer control, continue timing while printing results, printer buffer active so you don't lose dta while changing paper
- Memory for up to 10.000 splits with bib numbers up to 9999
- Four separate races can be run be- fore having to dear out the memory
- Multiple heats can be run within each race
- Results can be produced for up to 40 different age and sex classes racing together
- Computer interface for an ease of transfer of net or reference times to custom or user created data bases
- Display interface for use with all types of ALGE displays or message centres, and is also ready for high speed wireless transmission
- Built in dock with user selectable time of day

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      ALGE TIMING
       TdC  8001
      ENG V 03.51

Program 1:  V01.72
SPLIT

Work on:
Race 1
Heat 1

Precision: 1/100 s

Timing:
DIFFERENCE

Startmode:
SINGLE START

Channels on:
0,1,2,3,4,5,6,7,8,9

Synchrontime:
   = 09:00:00

0001 ST  9:46:02.8702
     FT  9:47:21.4133
     RT     1:18.54
0002 ST  9:46:02.8618
     FT  9:47:31.2779
     RT     1:21.72

Heat 2

Precision: 1/100 s

Timing:
DIFFERENZ

Startmode:
BIBO: 15

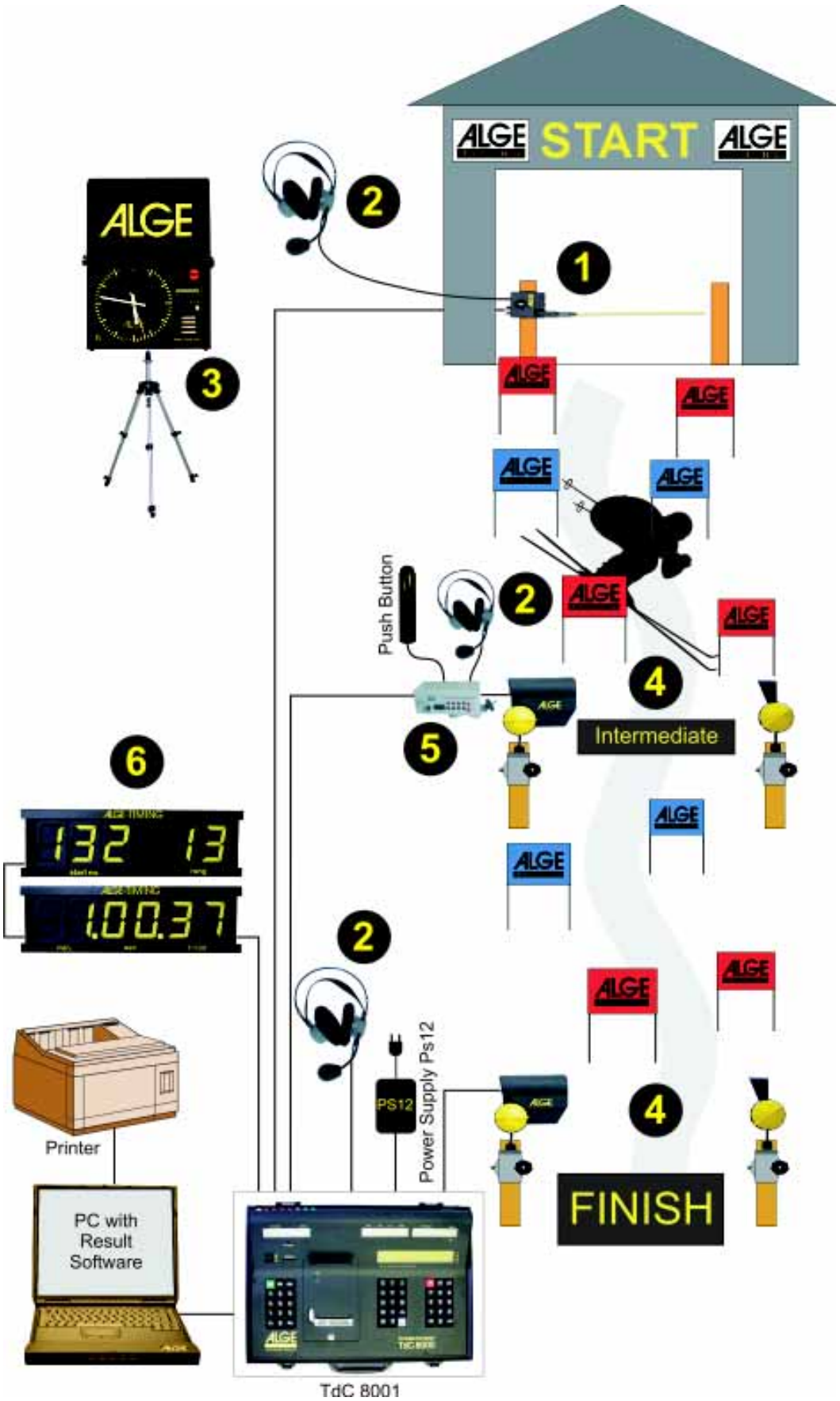
0001 ST 10:48:16.1121
     FT 10:49:27.6383
     RT     1:11.52
0002 ST 10:48:24.7473
     FT 10:49:35.0293
     RT     1:10.28
     MT     1:21.29
     TT     2:31.57

Classement:

   ALL

      TOTAL TIME

   1.
0001 RT      1:11.52
     MT      1:18.54
     TT      2:30.06
   2.
0002 RT      1:10.28
     MT      1:21.29
     TT      2:31.57
```



1	Startgate STSn
2	Headset Q34
3	Startclock ASC1
4	Photocell RLS1n
5	Photocell Adapter LA5
6	Display Board GAZ4

ALGE TIMING

Software of ALGE TdC 8001

SPLIT:

- Measures intermediate- and run times
- Start channel, 8 intermediate channels, finish channel
- Selectable calculated precision from 1/1000 up to 1 sec.
- Up to 256 heats (runs)
- Individual, group, or mass start
- Time of day, or absolute timing
- Up to 9999 competitors on course at once
- Multiple results possibilities including: 1st, 2nd run, total time, with or without FIS race points, team results, top 10, DNFs, etc

Recommended for: Alpine skiing, Snowboard, Cross Country skiing, Road and Mt. Bike Cycling, Biathlon, etc.

PARALLEL SLALOM

Parallel Slalom with finish differential only:

- Red and Blue course identification
- Differential time between both courses

Recommended for: Alpine Skiing and Snowboard

Parallel Slalom with net time and differential time:

- Common start for both courses
- Run time for both courses
- Differential time between both courses
- Red and blue course identification
- Total time after switching course
- Total differential time after switching course

Recommended for: Alpine Skiing, Snowboard, Dual Mountainbike Slalom, Pursuit Track Cycling, etc.

10-Channel-Timer:

- Measures intermediate- and run times
- Start channel, 8 intermediate channels, finish channel
- Selectable calculated precision from 1/1000 up to 1 sec.
- Up to 256 heats (runs)
- Individual, group, or mass start
- Time of day, or absolute timing
- Up to 9999 competitors on course at once
- Up to 9 lanes of finish input with memory for each lane and easy to input order of finish
- Multiple results possibilities

Recommended for: Marathon, Triathlon, Duathlon, 10k Run, Athletic, Training

STREET CYCLING:

- Measures the winner time
- Calculation of the average speed of the winner
- Measures the time difference between winner and other competitors

Recommended for: Street Cycling

EQUESTRIAN:

The software includes the following software for equestrian

- Standard Show Jumping (Table C)
- Standard Show Jumping with two runs
- Time Jumping (Table C)
- Competition in two Phases
- American Stage
- Standard Jumping (Table A) and Time Jumping (Table C)
- Carriage Driving

Recommended for: Equestrian

DOG AGILITY:

The software includes the following software for Agility

- Dog Agilitiy
- Gambler

Recommended for: Dog Agility

SPLIT SEQUENTIAL

- Measures intermediate- and run times with lap splits
- Start channel, 8 intermediate channels, finish channel
- Selectable calculated precision from 1/1000 up to 1 sec.
- Up to 256 heats (runs)
- Individual, group, or mass start
- Time of day, or absolute timing
- Up to 9999 competitors on course at once
- Multiple results possibilities including: 1st, 2nd run, total time, with or without FIS race points, team results, top 10, DNFs, etc

Recommended for: Cross Country ski relay, Biathlon relay, Motorsports, etc.

DUAL TIMER:

- Timing of two courses simultaneously
- Measuring of intermediate and run times
- Calculation of total time after reversal of courses
- Separate or combined start
- Only one racer on each course
- Selectable calculated precision from 1/1000 up to 1 sec.
- Results for each course individual or combined

Recommended for: Alpine Skiing, Snowboard, Dual Mountainbike Slalom , Pursuit Track Cycling, Kilometer Time Trial, Olympic Sprint, etc.

SPEED:

- Adjustable measuring distance between 1 and 9999 Meter
- Display and printout in km/h, m/s, and mph
- Bi-directional trap

Recommended for: any speed measuring requirement

SPEED SKIING:

- Fixed 100 m trap length
- Display and printout in km/h only
- Display and printout of start, finish, and run time
- Multiple results possibilities

Recommended for: Speed Skiing, Speed Mountainbike, Street Luge

SPEED SKATING:

Special program to time speed skating

- Automatic Lane Change
- Shows on two display board both comeptitors

CARVING:

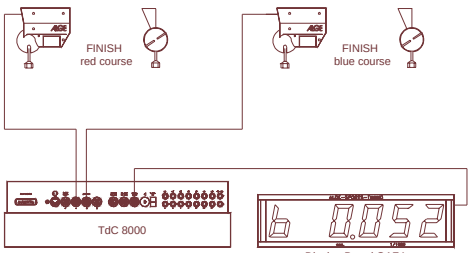
- Countdown from the selected maximum course time
- Horn at zero
- Count up after zero
- Selectable calculated precision from 1/1000 up to 1 sec.
- Individual, group, or mass start
- Time of day, or absolute timing

Recommended for: Carving

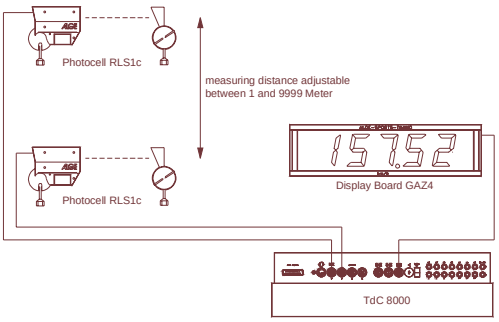
TDC TEST:

Test program to check all of the components of the TdC including printer, LCD displays, inputs

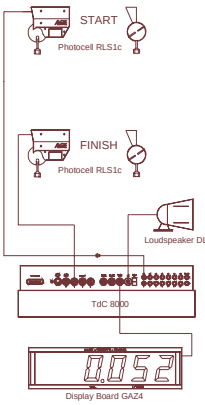
ALGE TdC 8000 - The Multi Talent



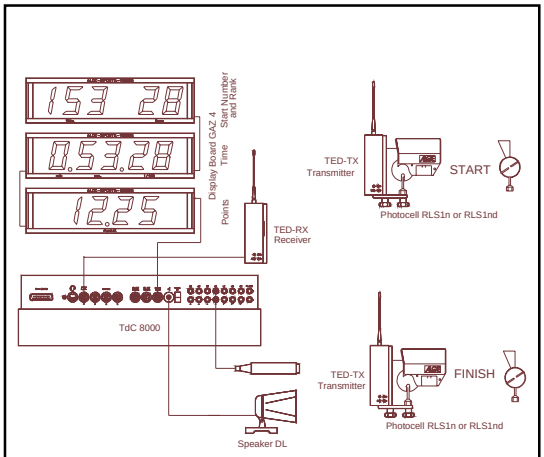
Setup for Parellelslalom
Program: Parallelslalom with difference time



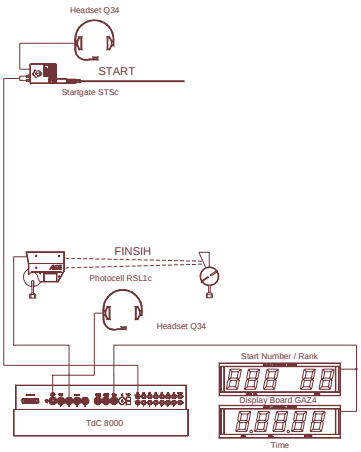
Setup for Speed Measurement
Program: Speed and Speed Skiing



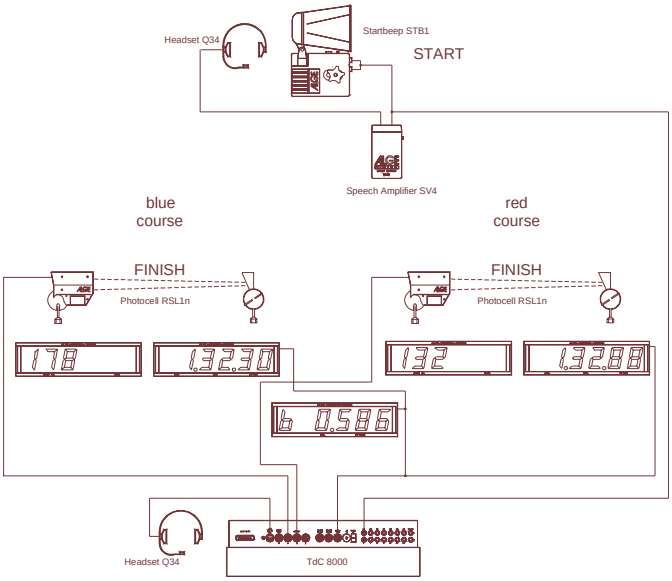
Setup for Carving
Programm: Carving



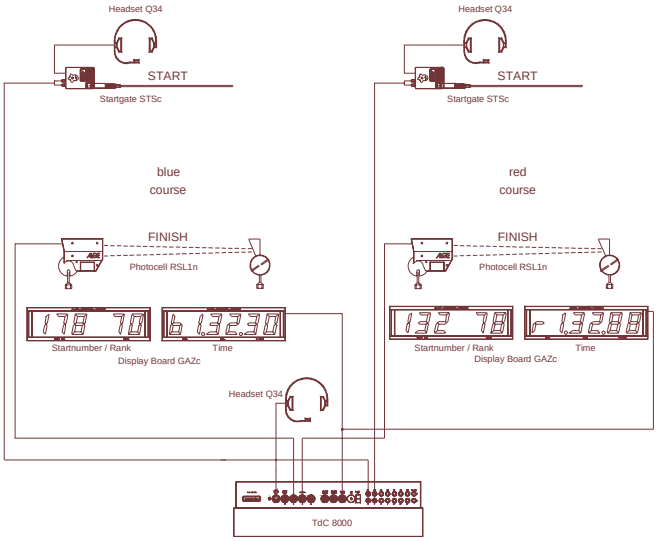
Setup for Equestrian
Program: Show Jumping



Setup for Ski Alpine or Ski Nordic
Program: Split or Split Sequential



Setup for Parallelslalom
Program: Parallelslalom with Net Time and Difference Time



Timing for two Race Courses
Program: Dual-Timer

Technical Data

Measuring range:
23 hours, 59 minutes, 59,9999 seconds

Crystal frequency:
TCXO 11.520 MHz (Temperature Compensated Crystal Oscillator)

Accuracy:
changeable temperature range from -25 to +50°C:
+/- 2,5 ppm (+/-0,009s/h.)
Aging: +/- 1 ppm per year
Frequency adjustment: +/- 0,1 ppm at 25°C

Temperature Operative Timing Range:
-25 to 50°C (-10F to 122F)

Electronic:
most modern power consumption saving C-MOS technology with 80C167 microprocessor

Memory:'
about 2 x 10.000 times with start numbers, keeps data when switched off through internal rechargeable battery

Display:
start display (2): numeric liquid crystal display, 8 digits, figure height 12.7 mm
finish display (7): numeric liquid crystal display, 8 digits, figure height 12.7 mm
finish display (8): numeric liquid crystal display, 8 digits, figure height 12.7 mm
info-display (6): alphanumeric liquid crystal display, 4 x 40 characters, figure height 4.8 mm

Printer:
Thermoprinter (matrix) with a max. speed of 6 lines per second

Operating elements:
On-/Off-switch, turn over switch, start keyboard with 15 keys, function keyboard with 15 keys, finish keyboard with 15 keys

Power Supply:
internal: NiCd rechargeable battery 7.2 V / 4.5 A
external: 230 VAC (alternative 115 VAC) with charger

Power Consumption:
no external devices from the internal NiCd battery: about 80 mA
when printing: about 500 mA

Charging Supply:
+11 to 16 VDC

Impulse Length:
Input resistance 10 kW against +5V, Triggering with < 1V (falling flank) Hysteresis about 2V

Output 5VDC stabilized:
total max. of 120 mA

Interfaces:
RS 232c Interface for PC
RS 232c Interface for Display Boards
RS 485 Interface

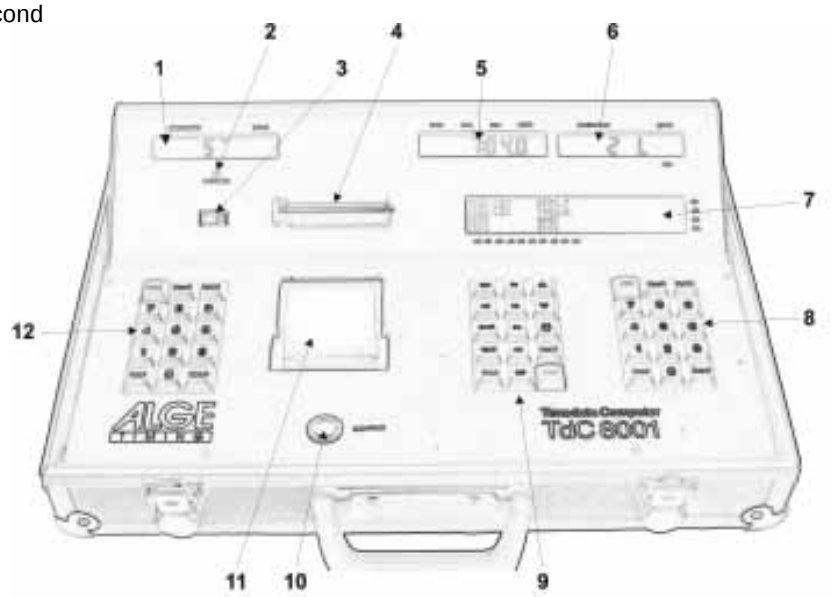
Loudspeaker output:
for 8W speaker, U = 24 Vpp

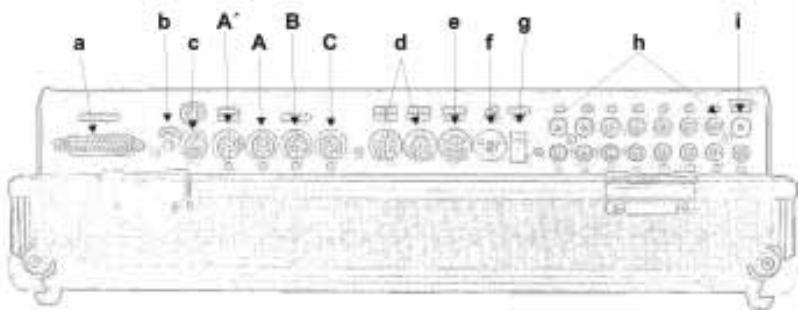
Casing: case with key to lock, removable cover

Dimensions: 450 x 320 x 150 mm / 17.8 x 12.6 x 6 inches

Weight: 7.5 kg / 16 lb.

Operation Elements and Connectors





1	Start-Display
2	External supply LED status light
3	Meter to monitor power supply, and photocell
4	Paper-Roller
5	Display that shows the running time
6	Display that show the start number of the finish
7	Info-display 4 x 40 alphanumeric characters
8	Start keyboard
9	Function keyboard
10	Paper feed button
11	Printer cover and paper-tray
12	Finish keyboard
a	Connection for Multi Channel
b	Volume for headset
c	Jack for the headset
A´/A/B/C	Identical socket for photocell and supply
d	Identical DIN-jacks with RS-232 and RS-485
e	DIN-jack to connect a display board
f	DIN-jack to connect a speaker
g	On / Off - switch
h	Banana socket for all 10 timing channels
i	Banana socket for RS-485

ALGE-TIMING GmbH & Co
Rotkreuzstrasse 39
A-6890 Lustenau
Tel: +43-5577-85966
Fax: +43-5577-85969
office@alge-timing.com
www.alge-timing.com