For all Times
TdC 8001

Timedata Computer
TdC 8001

ALGE TIMING

What is so special about the TdC 8001?

Finally, the answer to your dreams. The Timedata Computer TdC 8001 is 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 extremely 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 editing are visible in all light levels and work instantly. The case with integrated recharge

able battery pack is made of abrasion 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 sports. Our TdC 4000 series has long since handed over the lead to a most worthy successor. Look about your venue. You never have to worry if you invest in the TdC 8001 and matching accessories.

Useful features include:

- Integrated software for all types of popular timed sports
- Total printer control, continued timing while printing results, printer buffer active so you do not lose data while changing paper
- Memory for up to 10,000 splits with competition numbers up to 9,999
- Four separate races can be run before having to clear 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 easy transfer of net or reference times to custom-made or user created data bases
- Display interface for use with all types of *ALGE* displays or message centers and also ready for high speed wireless transmission
- Integrated clock with user selectable time of day

Racing into the Future

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
```
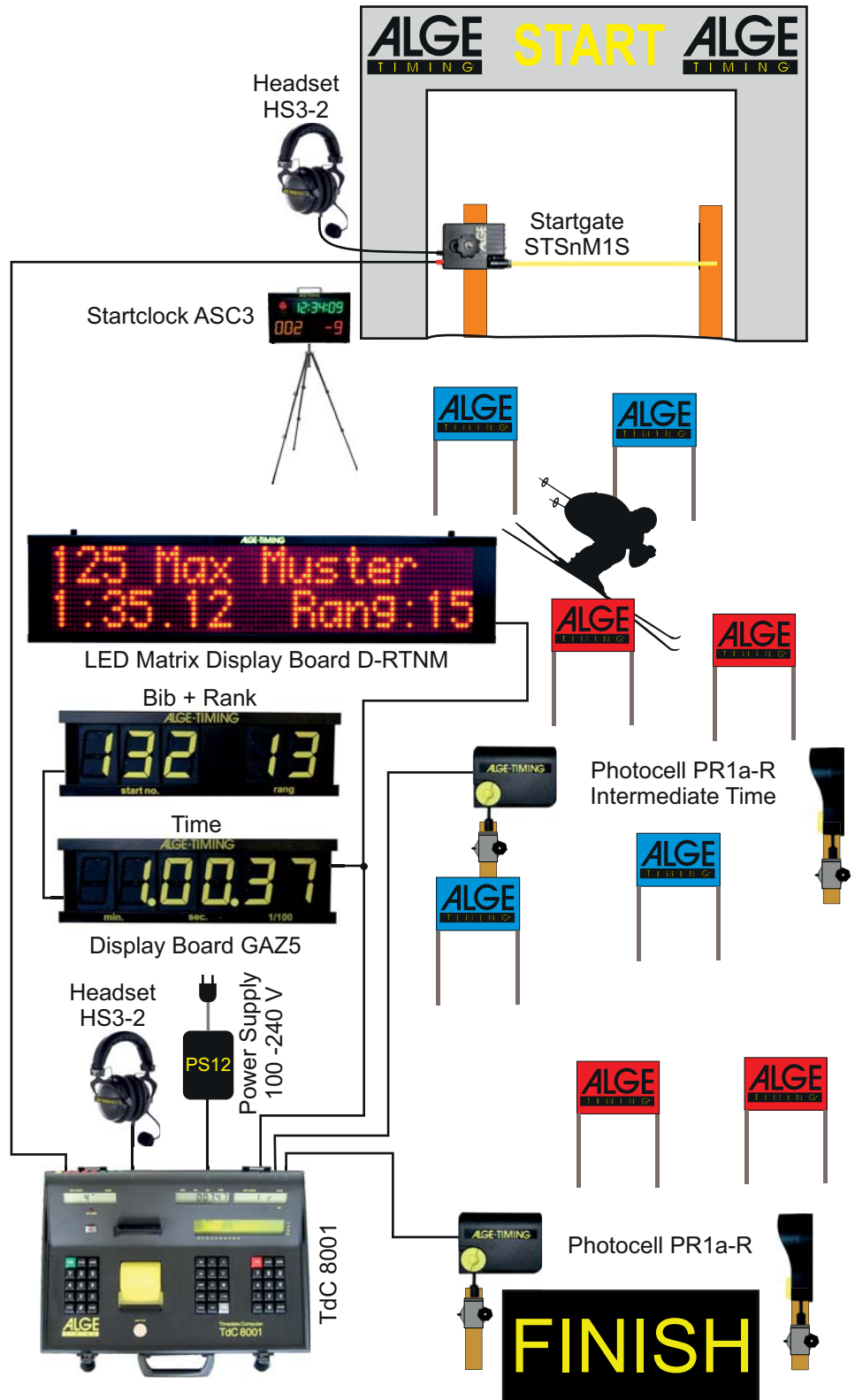
Classement:

   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
```

Headset
HS3-2

START

Startgate
STSnM1S

Startclock ASC3

125 Max Muster
1:35.12   Rang:15

LED Matrix Display Board D-RTNM

Bib + Rank

132   13

Time

1.00.37

Display Board GAZ5

Headset
HS3-2

Power Supply
100 -240 V

PS12

Photocell PR1a-R
Intermediate Time

TdC 8001

Photocell PR1a-R

FINISH

Software of ⴠLGE 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 result possibilities including: 1st, 2nd run, total time, with or without FIS race points, team results, top 10, DNFs, etc

Recommended for: Alpine skiing, snowboarding, cross country skiing, road and mountain bike cycling, biathlon, etc.
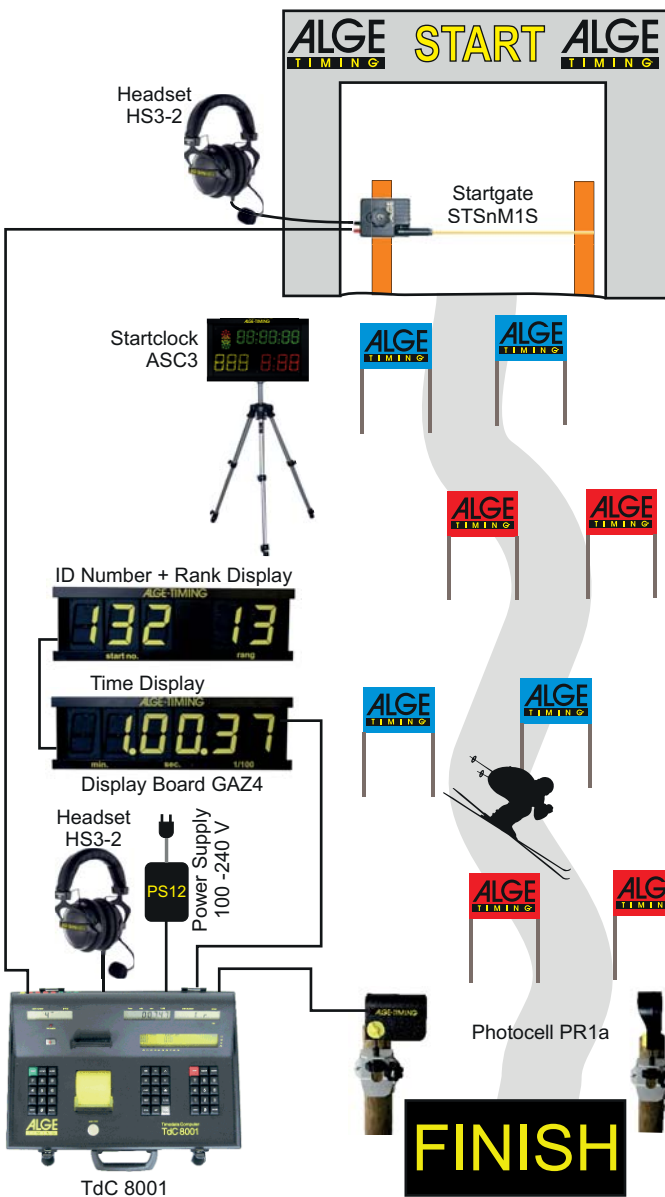
PARALLEL SLALOM

Parallel Slalom with finishing difference only:

- Red and Blue course identification
- Time difference between both courses

Recommended for: Alpine Skiing and Snowboarding

Parallel Slalom with net time and difference time:

- Simultaneous start for both courses
- Run time for both courses
- Time difference between both courses
- Red and blue course identification
- Total time after switching course
- Total time difference after switching course

Recommended for: alpine skiing, snowboarding, dual mountainbike slalom, pursuit track cycling, etc.
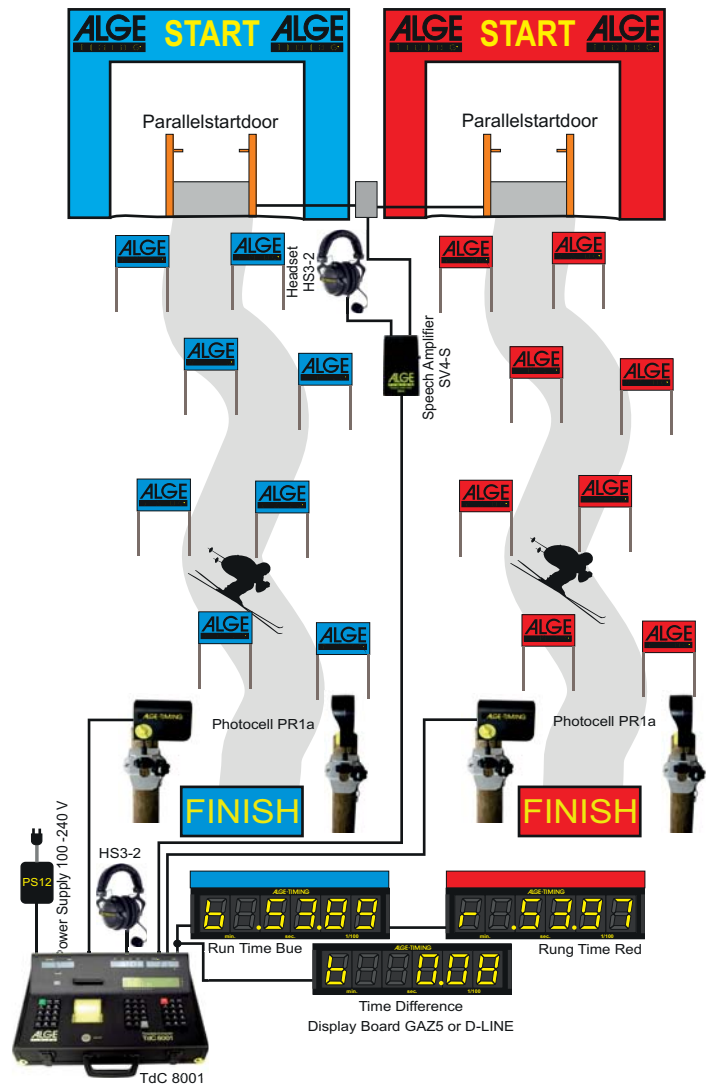
EQUESTRIAN:

Includes software for all FEI showjumping events:
- Standard show jumping (Table C)
- Standard show jumping with two runs
- Time jumping (Table C)
- Competition in two phases
- American jump-off
- Standard jumping (Table A) and time jumping (Table C)
- Team jumping
- Carriage driving
- etc.

Printout of a standard show jumping (Table C)

0016	C9	11:31:38.1200	Countdown Start
	CD	13.98	Start 13.98 of Countdown
0016	ST	11:32:09.1346	Start time (Time of Day)
	P	+ 4.00	4 Penalty Points
	C9	11:32:41.2150	Timeout Start
	TO	32.08	Timeout Run Time
	PTO	+ 6.00	6 Penalty Seconds
	C9	11:32:50.1876	Timeout End
	P	+ 4.00	4 Penalty Points
	FT	11:33:14.8536	Finish Time (Time of Day)
	RT	56.74	Run Time
0016	PTO	6.00	Penalty Seconds
	PTM	2.00	Penalty Points for Time
	PP	8.00	Penalty Points on Course
	RTT	62.74	Total Run Time
	TP	10.00	Total Penalty Points

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, motorsport, 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 identified lanes for finish input
- Memory for times and easy input of arrival order
- Multiple result possibilities

Recommended: Marathon, triathlon, duathlon, 10k run, athletics, training

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, Snowboarding, Dual Mountainbike Slalom, Pursuit Track Cycling, Kilometer Time Trial, Olympic Sprint, etc.

Timing System for Show Jumping

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 mountainbiking

SPEED SKATING:

- Automatic lane change
- Shows on two display boards both competitors

CARVING:

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

•STREET CYCLING:

- Measures the winning time
- Calculation of the average speed of the winner
- Shows the time difference between winner and others

Technical Data

Measuring range:
23 hours, 59 minutes, 59.9999 seconds

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

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

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

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

Memory:'
about 2 x 10,000 times with start numbers, keeps data when switched off by internal rechargeable battery

Display:
start display (1): numeric liquid crystal display, 8 digits, figure height 12.7mm
finish display (5): numeric liquid crystal display, 8 digits, figure height 12.7mm
finish display (6): numeric liquid crystal display, 8 digits, figure height 12.7mm
info-display (7): 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 (g), start keyboard (12) with 15 keys, function keyboard (9) with 15 keys, finish keyboard (8) 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 kΩ 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 8Ω 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 shows the start number for the finish
7................Info-display 4 x 40 alphanumeric characters
8................Finish keyboard
9 ....Function keyboard
10..............Paper feed button
11 ....Printer cover and paper-tray
12..............Start keyboard
a................Connection for Multi Channel
b................Volume for headset
c................Jack for the headset
A´/A...........DIN-jack for photocell and supply (identical)
B ....DIN-jack for photocell and supply (different channels)
C ....DIN-jack for photocell and supply (different channels)
d................Identical DIN-jacks with RS232 and RS485
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 display baord