

# TIMER S4



**ALGE**  
**TIMING**

# The universal Genius TIMER S4

## Simple as always, rugged as always!

The Timer S4 is very popular because of the simple operation (e.g. if different people have to work with it). Professionals like the S4 since it has many impulse channels and a RS232c interface to communicate with a PC.

- 3 independent clocks can be accessed for either 3 independent courses or 3 individual competitors
- 18 channel timing device
- Memory for 8000 times with consecutive numbers and channel identification
- Individual adjustable delay time for start and finish impulse channels
- Built-in speech amplifier for speech connection between start and finish by headset using the 2 wire impulse cable
- Output to control ALGE display boards
- Output to connect a printer (e.g. Printer P5)
- RS232c interface to communicate with a results PC
- Big LCD-display with a figure height of 13 mm
- Operation independent from mains possible through built-in battery (Alkaline or rechargeable battery)
- Adjustable precision (1/10, 1/100, or 1/1000 seconds )

### Accessory:

We can offer a lot of accessory for the Timer S4.

- Power Supply PS12
- Printer P5
- MultiChannel MC18
- Startgates
- Photocells
- Push Button
- Display Boards
- Headsets
- Teledata TED
- Carrying Case for transport
- usw.

**The Timer S4 has a large variety of programs to use it universally:**

**Split:**

Net timing with a maximum of 3 competitors on course.

**Sequential:**

Lap timing with a maximum of 3 competitors on course.

**Parallel Slalom:**

Program for time difference or time difference and run times.

**3-Parcours-Timer:**

Start and finish time for 3 independent courses.

**18-channel timer with net time:**

Universal timing program designed for online use with a PC. Allows the recording of a start for individual or mass events, intermediates and finish, all with channel identification, continuous ID-number and net time.

**18-channel timer with time of day and net time:**

Enhanced version of the program listed above with the addition of time of day reference time for every time split recorded. Also allows the use of split and sequential or time-out features.

**18-channel timer with time of day and countdown:**

Enhanced version of the program listed above with the replacement of net timing by countdown capability. Also allows usage of timeout feature.

**Automatic:**

Ideal training program enables the user to select the number of timing points that will be received, displayed and reset without the need for an operator.

**Equestrian show jumping:**

Universal program for most national and international formats handling timing and point calculation.

**Agility:**

Universal program for most national and international formats executing timing and point calculation.

**Swimming:**

For pools with up to 8 lanes. Allows the recording of full and half lap splits. Cost-effective alternative for clubs, schools and facilities.

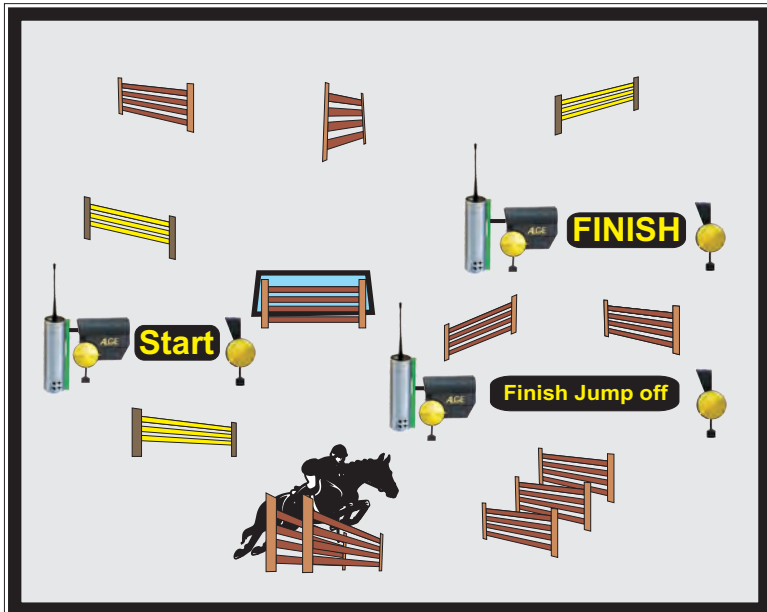
**Speed:**

Speed measurement in km/h, m/s or mph. Allows the input of measuring distance from 1 to 180 m.



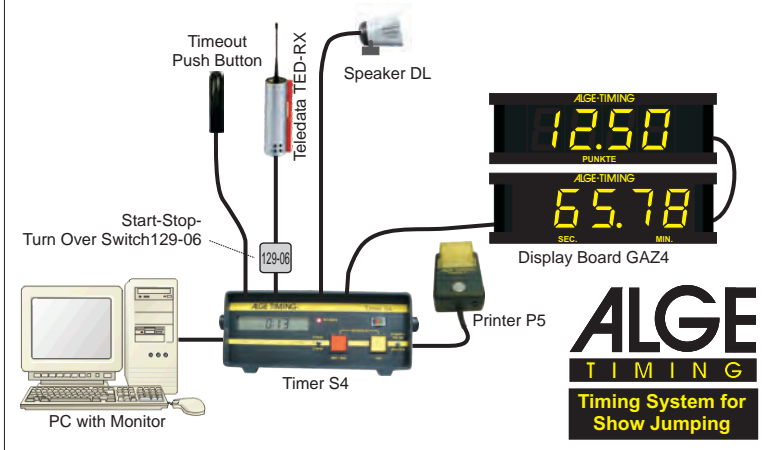
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# Timer S4 - the Timing and Display System for Equestrian



## Some Facts About the Timer S4 for Show Jumping:

- Contains all popular domestic and international programs for jumping
- Adjustable countdown with horn
- Push button controlled timeout
- Horn sounds at the end of countdown, beginning and end of timeout
- Adjustable input of penalty time
- Adjustable input for rail drop penalty points
- Easy reset of false finishes
- Automatic time penalty point calculation for exceeding the optimum time
- Printout of total time from clear round time and penalty time
- Printout of total points (rail drop plus time penalty points)
- Easy operation with two buttons
- All necessary accessories available



## Programs for the following are available:

- Standard show jumping (Bareme A)
- Jump-off for standard show jumping
- Standard show jumping with stage (Bareme B)
- Standard show jumping with jump-off
- Show jumping with time penalty (Bareme C)
- Two stage show jumping (Bareme A Barrage Integre)
- Standard show jumping with American jump-off

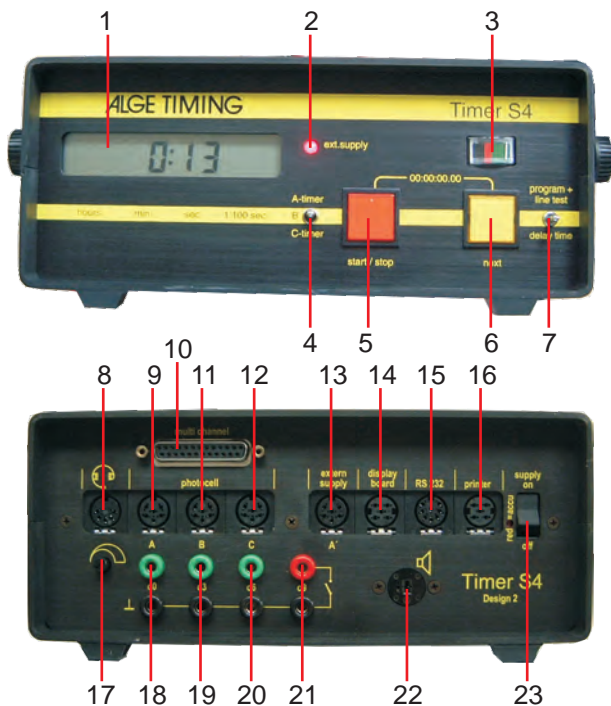
## Hard Copy Printout Sample of ALGE-Printer P5

|       |          |   |
|-------|----------|---|
| TMPL  | 055 sec. | Preselected time limit (allowed time)                     |
| CD    | 45 sec.  | Preselected countdown time (pre-start)                    |
| ----- |          |   |
| CD    | 21 sec.  | Start 21 seconds before expiration of countdown           |
| TO    | 17.92    | Timeout after 17.92 seconds                               |
| PS    | 6 sec.   | Penalty time of 6 seconds                                 |
| PP    | 4.00     | 4 penalty points for barrier drop                         |
| TO    | 45.83    | Timeout after 45.83 seconds                               |
| PS    | 8 sec.   | Penalty time of 8 seconds                                 |
| ----- |          |   |
| TN    | 55.35    | Clear round time (without penalty time / penalty seconds) |
| PP TM | 0.25     | Time penalty points for exceeding of time limit           |
| PP    | 4.25     | Penalty points (exceeding of time and barrier drop)       |
| ----- |          |   |
| TT    | 69.35    | Total time (clear round time and penalty time)            |
| PP TM | *03.75*  | Time penalty points from total time                       |
| PP    | *07.76*  | Total penalty points (total time and barrier drop)        |

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# Technical Data

- Measuring Range:** 23 hours 59 minutes, 59.999 seconds
- Crystal Frequency:** TCXO 9.216 MHz (temperature compensated quartz oscillator)
- Accuracy:** Within -30°C to +75°C: - 2.5 ppm (+/-0,009 seconds per hour)  
Ageing: +/- 1 ppm per year  
Frequency adjustment: +/- 0,1 ppm at +25°C
- Operative Temperature Range:** -25 to 50°C
- Memory:** 8000 times with consecutive ID numbers and channel identification
- Display:** LCD numeric display with 8 characters, figure height 12.7 mm
- Electronic:** CMOS-Technology
- Power Consumption:** without external devices from internal battery about 60 mA
- Impulse Input Channels:** 18 impulse input channels  
input resistance 10 k against +5V  
triggered with < 1V (down trigger)  
Hysteresis about 2 V
- Output Channels:** 5VDC stabilized, total maximum 120 mA
- Speech Amplifier:** Communication possible with channel C0, C1, C2, C3, C6 and C9
- Speaker Output:** for 8 speaker,  $U_{max} = 24 V_{pp}$
- Operation Elements:**
- 1 on/off switch (23)
  - 1 push button "start/stop" red (5)
  - 1 push button "next" yellow (6)
  - 1 toggle switch (A-, B- and C-timer) (4)
  - 1 toggle switch (program, line test, delay time) (7)
- Casing:** black anodized aluminium case with built-in battery box, handle for carrying and countertop height adjustment  
W x H x D = 226 x 95 x 162 mm
- Weight:** 2.2 kg (including batteries)



- 1 . . . . . Display, 8 numerical digits
- 2 . . . . . LED lamp for external power supply
- 3 . . . . . Meter to show battery power and photocell condition
- 4 . . . . . Toggle switch with 3 positions
- 5 . . . . . Start/Stop-Button
- 6 . . . . . Next-Button
- 7 . . . . . Toggle switch with 3 positions
- 8 . . . . . DIN-socket for headset
- 9 . . . . . DIN-socket A (e.g. for photocell)
- 10 . . . . . Socket D-Sub 25 pin with all 18 channels
- 11 . . . . . DIN-socket B
- 12 . . . . . DIN-socket C
- 13 . . . . . DIN-socket A'
- 14 . . . . . DIN-socket for display board
- 15 . . . . . DIN-socket RS 232c (e.g. for PC)
- 16 . . . . . DIN-socket for external printer
- 17 . . . . . Volume for headset
- 18 . . . . . Input channel c0 (Start)
- 19 . . . . . Input channel c3
- 20 . . . . . Input channel c6
- 21 . . . . . Input channel c9
- 22 . . . . . DIN-socket for external speaker
- 23 . . . . . on/off switch

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