



WITTY•TAB

User Manual

Version 1.2

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1 HARDWARE



Figure 1 – Witty•TAB

Weight	2.9 kg, batteries included
Dimensions	13 x 41.5 x 6 cm (H x W x D)
Operating temperature	0°C to +45°C
Unit of time measurement	1/100 s Selectable speed m/s – km/h – mph
Measurement resolution	4 x 10 ⁻⁵ s (1/25000 s)
LED matrix	Numerical: 6 digits x 7 segments (10 x 5 LEDs) with 4 punctuation marks (full stop or colon) with manual/automatic brightness adjustment.
Radio module	433-434MHz multi-frequency transceiver
Radio transmission	Digital FSK transmission; redundant code with information correctness verification and auto-correction
Radio frequencies	433.050 MHz to 434.790 MHz
Radio transmission power	10 mW
Radio transmission range	Approx. 150 meters
Processing unit	16-bit microcontroller
Time base	12. quartz 8 MHz, stability ±10ppm between 0°C and +45°C
Power supply	Two internal Pb batteries

Battery charging	Intelligent external Pb battery charger device
Battery life	> 10 hours
Buttons	• START/STOP button • LAP/RESET button
Connections	• Type B MICRO USB connector to connect to a PC • Jack connector for external input/output • SMA connector for connection to an external aerial
Average Distance of the RF Antenna to the person	• During Configuration 0.3mt • Normal use > 1mt

1.1 CONTROL PANEL



Figure 2 – Control panel

ANT: radio aerial connector

STATUS: status signal LED.

START STOP: Green START STOP button used for manual START and STOP signals and for modifying values in program settings¹

LAP RESET: Yellow LAP RESET button used for manual LAP signals and for confirming program settings²

USB: USB cable connector for firmware updating

I/O: 3.5 mm jack for external sensors, such as starting pads, start gun sensor, button, etc.

POWER: On/Off switch

SUPPLY: Connector for external power supply and battery charging

¹ This button will hereafter be referred to as **START-STOP**

² This button will hereafter be referred to as **LAP-RESET**

1.2 POWER SUPPLY AND BATTERY CHARGING

Witty TAB comes with two internal lead batteries ensuring an average 10-hour life. The status LED on the side panel indicates the state of the battery (see table below).

To recharge the display board (or for mains-operated use) connect the power adapter to the Supply socket and to the outlet. A LED on the power adapter (see below) allows monitoring the charging process, which is approximately 5 hours.

STATUS	STATUS LED on WITTY•TAB
NORMAL Mode - Battery charged - Low battery - Battery completely empty (LED matrix turned off)	Green - steady light Red - pause Red - steady light
BOOTLOADER Mode Witty•TAB has been turned on with the ON/OFF switch by keeping the two buttons ("START STOP" and "LAP RESET") pressed	Red - Green

The LED on the power adapter indicates the following statuses:

STATUS	STATUS LED on the POWER ADAPTER
- Charging - Charged/maintenance	Yellow Green

1.3 PHOTOCELLS



To **switch on** the photocell press the ON button for one second; the status LED blinks with a green light (if the battery status is sufficient) or with an orange light (if the battery status is low). A continuous beeping sound is produced until the **correct alignment** with the reflector (or a similar reflecting surface) is found.



To **switch off** the photocell press the button until the LED turns red, then release it.

1.3.1 MOUNTING PHOTOCELLS AND REFLECTORS ON TRIPODS

To mount the photocells and the reflectors on the tripods supplied with the kit, proceed as follows:

Take the little platform off the tripod's top and screw it onto the photocells and below the reflectors (the platform is square-shaped and therefore allows 4 mounting directions with respect to the tripod). Mount the devices onto the top of the tripod inserting the front of the platform, and then the rear until the tab clicks into place.



Extend the tripod legs to the required height (usually the photocell must be interrupted by the chest of an athlete), and position the photocells and the reflectors at a distance of 1-7 meters.



1.3.2 STATUSES AND COLORS OF THE PHOTOCELL LED

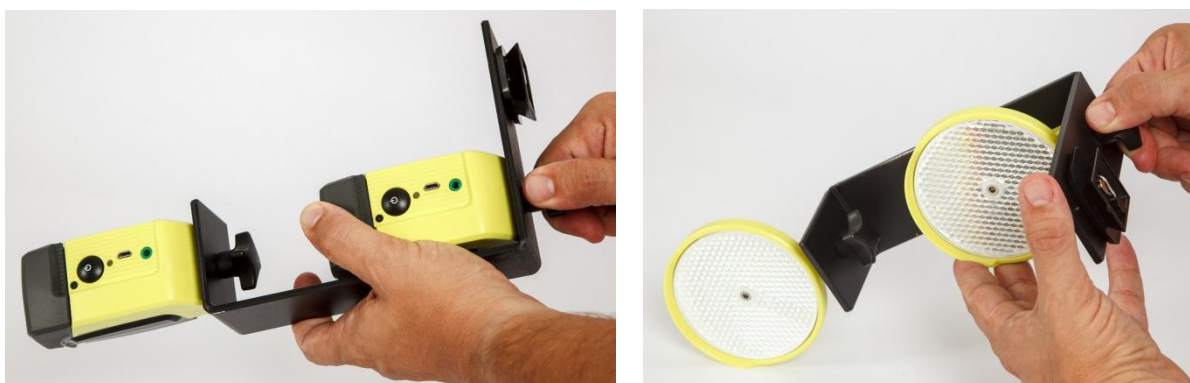
PHOTOCELL OFF	
STATUS	STATUS LED
Battery charged/empty	Off
- External supply - Battery charging	Orange blinking light
- External supply - Battery charging completed	Green steady light
PHOTOCELL ON	
STATUS	STATUS LED
NORMAL Mode - Battery charged - Battery empty	Green - Pause Red - Pause
BOOTLOADER Mode The photocell has not been switched on pressing the ON/OFF button but connecting the USB cable to a PC. This activates the BootLoader HID and the firmware can be updated.	Red - Green
CONFIGURATION Mode When switching on, the ON/OFF button is pressed for at least 5 seconds and the configuration mode is activated.	Red blinking light
TWO PHOTOCELLS Mode: Master photocell (higher serial number) - Battery charged - Battery empty Slave photocell (lower serial number) - Battery charged - Battery empty	Green - Pause Red - pause Green fast blinking light Red fast blinking light

1.3.3 PAIRED PHOTOCELLS

To prevent the photocell being interrupted by an athlete's arm swinging forward, in official competitions or in any case when measurement must be as precise as possible, the use of paired photocells is necessary.

This setup ensures that time is measured exactly when the athlete's chest crosses the line, as the impulse (start/stop/lap, depending on the position) is given only when both photocells are interrupted.

To mount the photocells, screw the C bracket onto the tripod platform, the photocells, and the reflectors, as shown in the figure (the photocells are mounted at 90° with respect to the C bracket).



Then mount the bracket onto the tripod and connect it with the photocells using the jack-jack cable. The **MASTER** photocell is the one with the higher serial number and blinks more slowly than the **SLAVE**. As the Master photocell transmits the signal to the timer, to ensure a wider aerial range, the latter should always be mounted on top.



Master:
Higher S/N,
blinking at regular
speed.
Always on TOP!

Slave:
Lower S/N,
blinking fast.

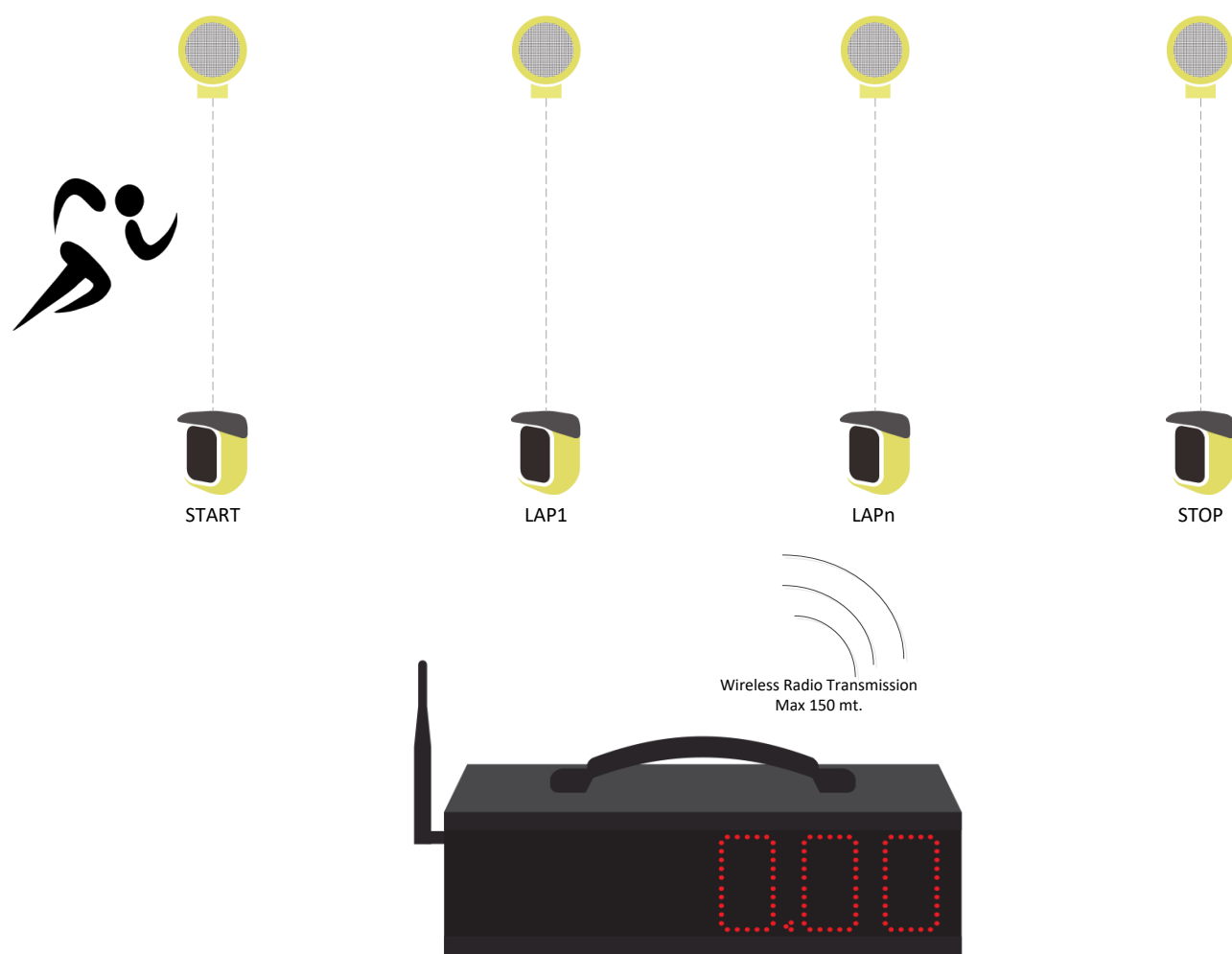


1.4 RADIO SYSTEM

The Witty•TAB display board communicates with the Witty photocells via 433Mhz radio transmission with a **maximum range of 150 meters** in standard conditions. To prevent frequency collisions with other Witty•TAB Kits on the field, it is possible to change the transmission channel (of both the timer and photocells, which must have the same channel). Please refer to chapter 2.20 for information about changing the channel number.

In **case of rainy weather** radio transmission can be disturbed by the water drops and therefore the maximum distance must be reduced.

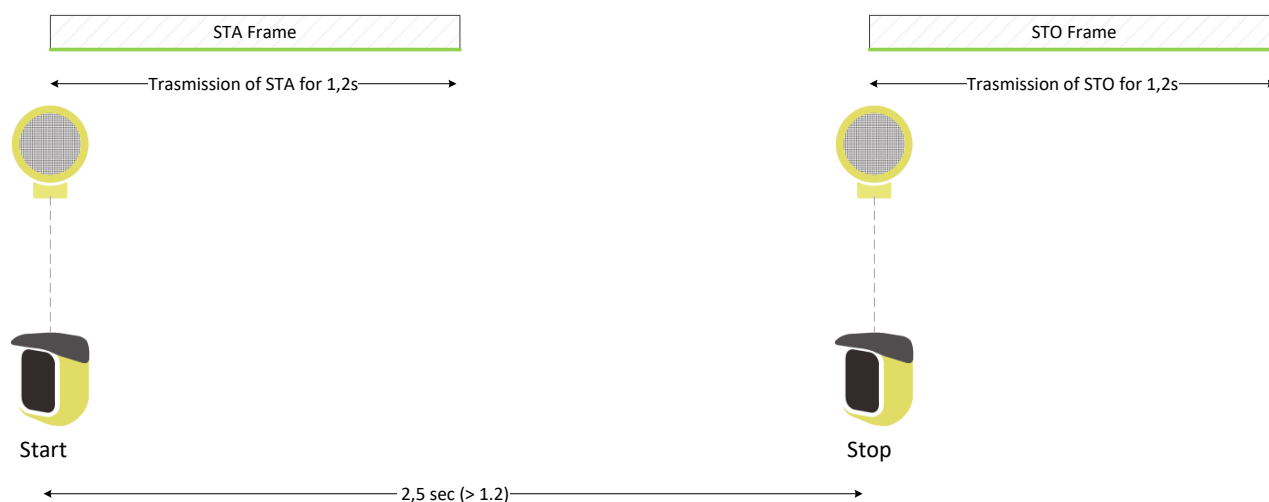
For excellent reception, position the Witty•TAB display board at a **height of at least 50 cm** (without it touching the ground) and **do not place it on top of metal objects**.



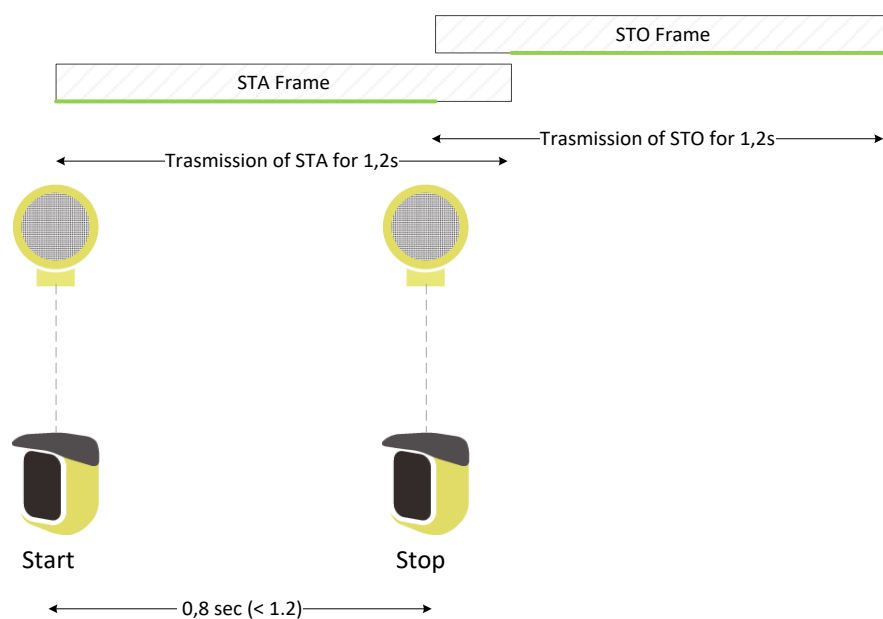
1.4.1 DURATION OF THE TRANSMISSION IMPULSE (RADIO POWER)

To increase radio transmission reliability, photocell impulse data packages are transmitted repeatedly over a set time of 1.2 seconds. This ensures that, in case of data loss, redundant information can be used to rebuild the event with absolute precision.

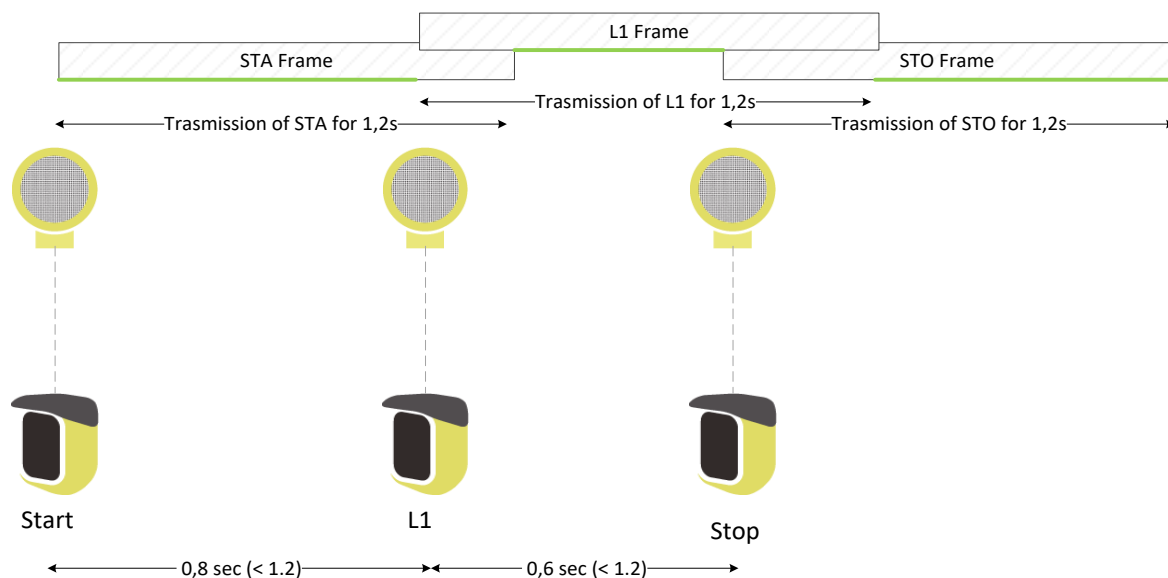
If more than 1.2 seconds pass between two impulses (e.g. start and stop photocell) there will be no problems, of course.



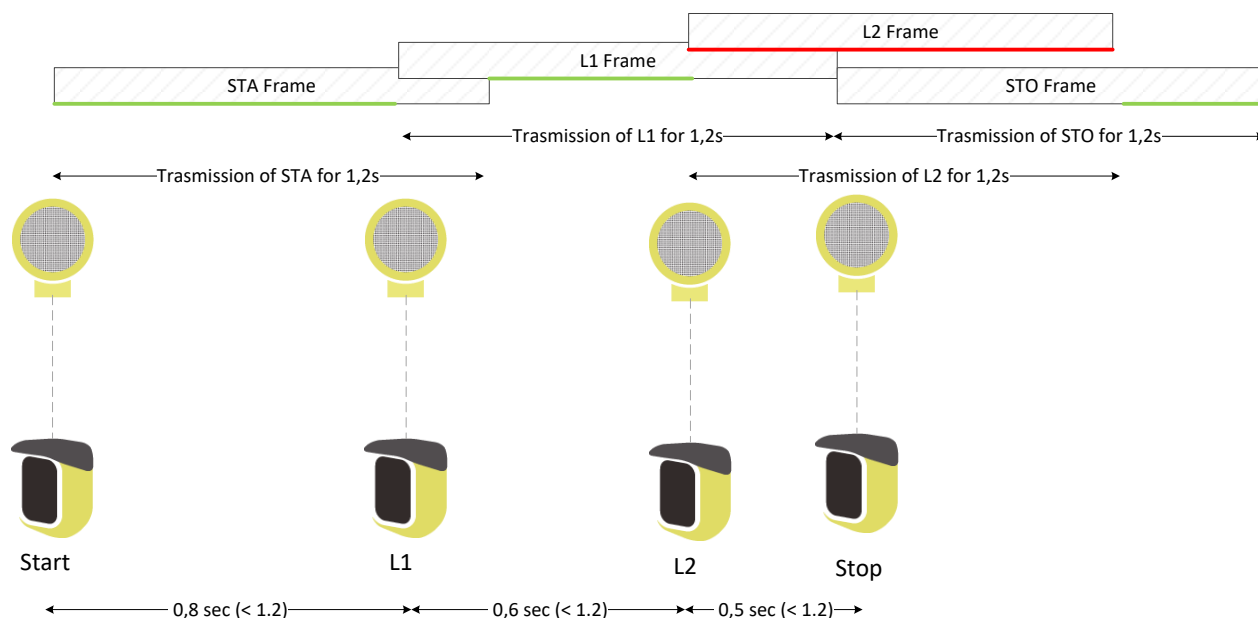
Even if the distance is shorter, the second impulse will be detected anyway, as its "tail" will be longer than that of the previous one.



Problems may arise when intermediate times (Laps) are used and these are very close to each other or between start and stop. Again it is not necessary that the delta (difference) between the impulses be more than 1.2 s; it is enough that the impulse has a "period of time" (green line) during which it does not overlap with others.



If there are many close intermediate times, one of them might be "completely" obscured by the previous or following impulses (as in the case of L2 in the figure below) and therefore won't be detected.



1.5 USE OF THE DISPLAY BOARD IN MANUAL MODE

The display board can be used in manual mode using the two buttons on the side panel:

GREEN **START-STOP** button: Simulates a START or STOP impulse

YELLOW **LAP-RESET** button: during a “running time” it simulates a LAP impulse; when the timer is stopped the display board is reset to the starting time

1.6 BRIGHTNESS SENSOR

Display board LED brightness can be set manually (from the menu) or assessed automatically depending on the ambient light detected by the brightness sensor in the lower part of the first digit. There is another sensor on the fourth digit, but only the one in the upper left corner is used for active control.

The manual minimum/maximum brightness values range from 0 to 100% at 5% steps (see program 99)

1.7 WARNINGS



DO NOT use other power adapters, accessories, or cables that are not provided with the product. Using power adapters, accessories, or cables other than those specified or provided by the device manufacturer may increase electromagnetic emissions and decrease the device's electromagnetic immunity, as well as put the operator's safety at risk.



WittyTAB has a threaded hole at the bottom for use with a tripod. Limit the use of the hole for this purpose and DO NOT screw in bolts longer than 5cm (normally the maximum length of a tripod head). Bolts longer than 10cm could touch and puncture the battery, posing serious safety risks to the operator.

2 INTERNAL PROGRAMS

The Witty-TAB display board also has a series of internal programs for various needs in athletic performance evaluation.

The programs available at the time of printing this guide are:

#	Name	Description
P0	Start, Stop	Basic timing with auto reset after 5 seconds
P1	Start, Lap1, Stop	Basic timing with 1 intermediate time
P2	Start, Lap1, Lap2, Stop	Basic timing with 2 intermediate times
P3	Speed	Speed measurement based upon any length between two photocells
P4	Lap Speed	Lap speed measurement with one photocell
P5	Start, LapN, Stop	Basic timing with n intermediate times and configurable display time
P6	Continuous Timing	Continuous timing, configurable "dead time"
P7	Starting System	Start and Stop with reaction time at start
P8	Event Counter	Counter increasing automatically with each impulse
P9	Parallel Event Counter	Two counters (left and right) for two photocells
P10	Date and Time	Displays date and time
P11	Time	Time display
P12	ReacTime	Shows reaction time from the Lynx ReacTime device
P13	Countdown	Displays a countdown
P14	Lap Time	Displays lap times
P15	Witty-SEM	Use the Witty-Tab with the Witty-SEM system
P96	Photocell filter	Configure a filter to work with certain photocells
P97	LED Segments Test	Checks that the LEDs work correctly
P98	Photocell Radio Signal Test	Checks the correct radio transmission functioning
P99	Parameter Configuration	Configuration of the brightness, radio channel and date & time parameters

To change program follow these steps:

- Keep the YELLOW **LAP-RESET** button pressed for at least 3 seconds.
- The currently selected program is displayed.
- Press the GREEN **START-STOP** button to scroll down the above-listed programs.

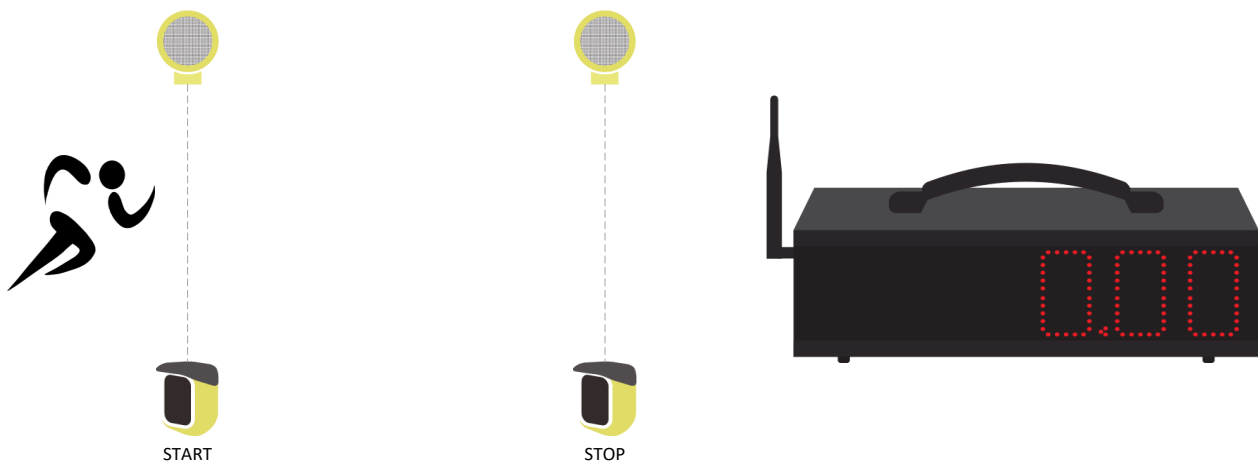
- Once the desired program has been reached, press the LAP-RESET button to confirm.
- Depending on the chosen program, further settings may be required or the program is executed immediately.

To change the parameters of a particular setting use the GREEN START-STOP button to increase digits one by one every time you press it, **keep pressed to scroll ahead**. When inputting 3-digit parameters (0-999), counter scrolling speed increases after 99.

2.1 P0 – START AND STOP

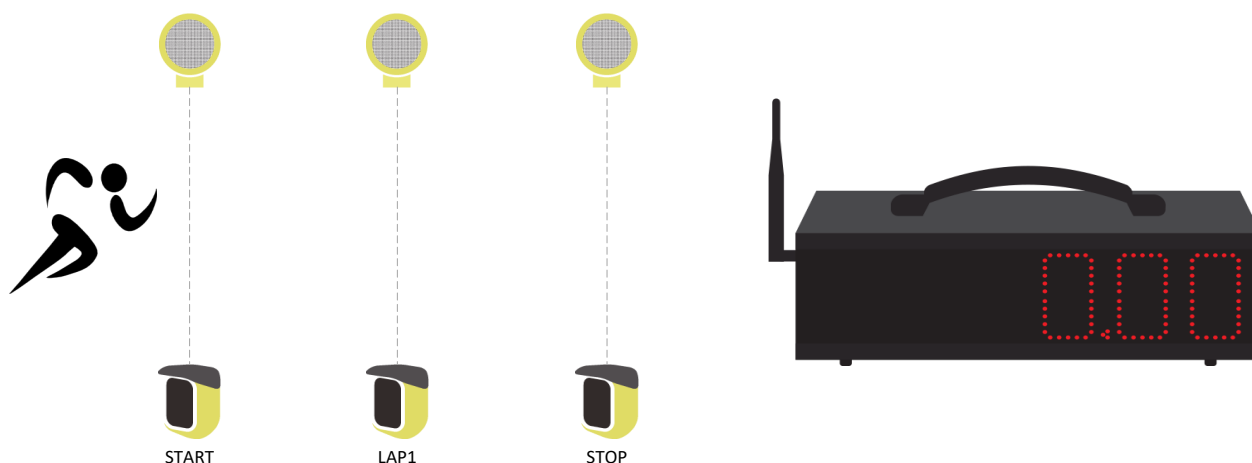
Basic timing program. The impulse of the first photocell starts the running time; the second impulse stops the timer, and the final time is displayed for 5 seconds, finally time is reset. To reset the display board without waiting 5 seconds, press the yellow **LAP-RESET** button.

No particular photocell configuration is needed (the first impulse is the start impulse, the second is the stop impulse).



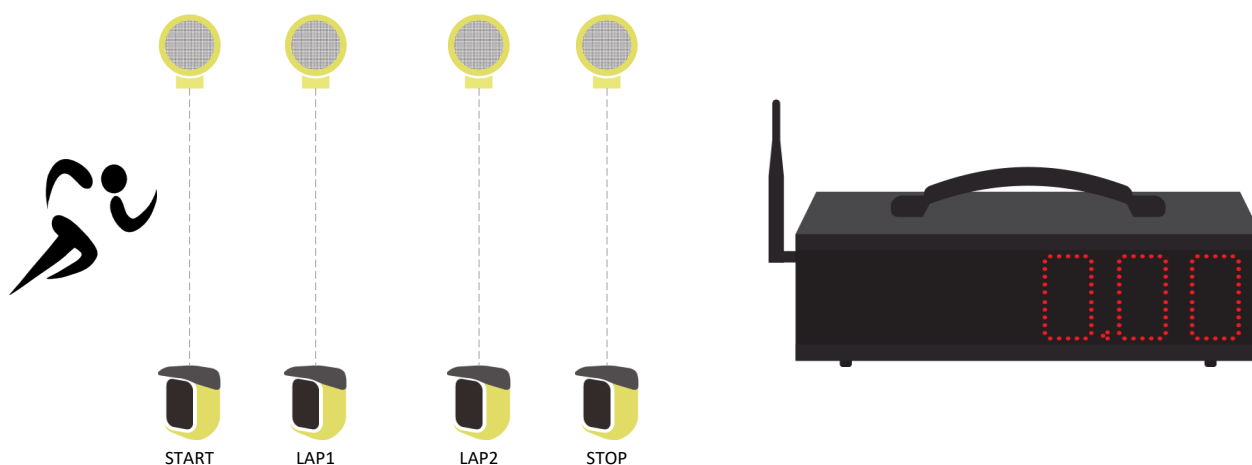
2.2 P1 – START, LAP1, STOP

Similar to the previous but with the addition of an intermediate time. When the second impulse (Lap1) is received, the display board displays the intermediate time for 5 seconds, then the running time is shown again. The third impulse (stop event) has the final time displayed for 5 seconds and then automatically resets to zero.



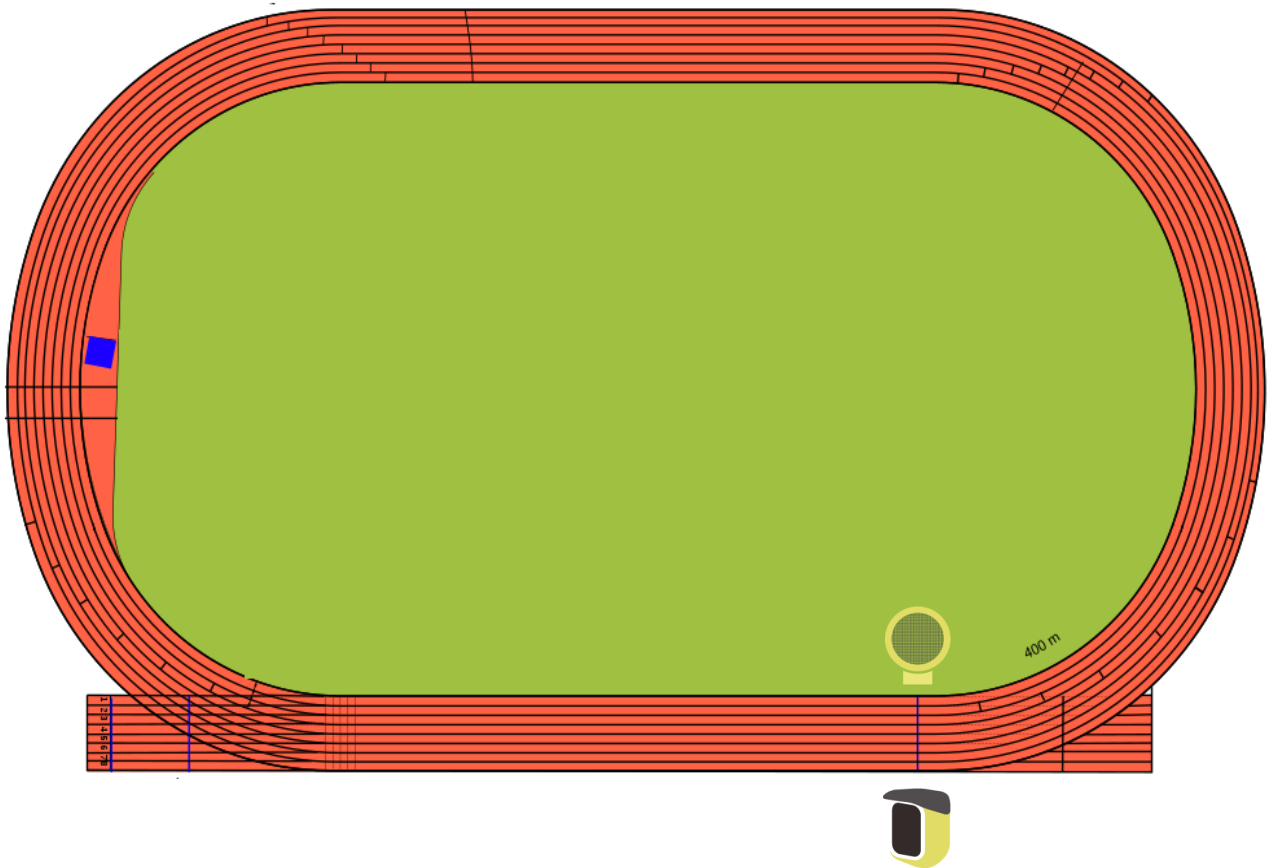
2.3 P2 – START, LAP1, LAP2, STOP

Similar to the previous but with the addition of two intermediate times. Both intermediate times and the final time are displayed for 5 seconds.



In the above-mentioned cases it is not necessary that the number of photocells be the same as that amount of intermediate times, one photocell used as start/stop/lap is enough.

e.g. Lap time on an athletics track



2.4 P3 – SPEED

Measures the speed (in m/s, km/h or mph) between two photocells set up at a certain distance.

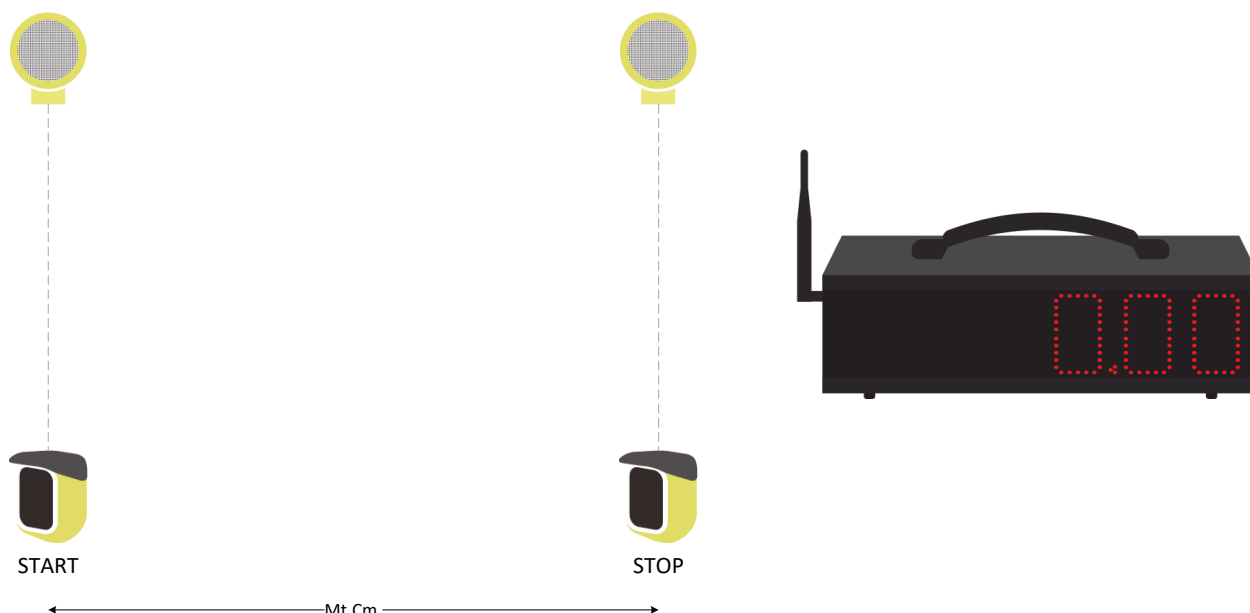
When the P3 program is accessed, the following parameters are required to set the length of the speed base and the measurement unit:

L —	Insert the number of METERS of the speed base length (0-999)
C —	Insert the amount of CENTIMETERS of the speed base length (0-99)
S —	Insert the measurement unit: 0 = m/s 1 = km/h 2 = mph

e.g. Speed base 36.58 meters (40 yards), measurement unit mph

P3 L 36 C 58 S 2

When the display board receives the first impulse, it displays -- -- -- , after the second impulse it shows the calculated speed until the next impulse is detected or the yellow Lap-Reset button is pressed.



Please note: the P3 program expects the impulses to be coming from two different photocells, so for timing the lap speed use program P4.

2.5 P4 – LAP SPEED

Measures the speed (in m/s, km/h or mph) between two impulses from the same photocell. Usually the speed base length refers to the lap (e.g. 400 m athletics track)

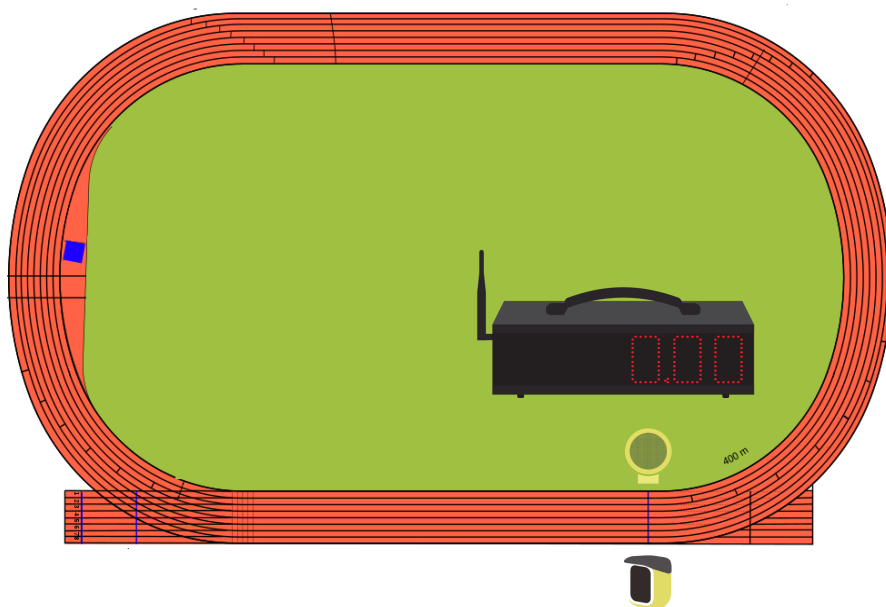
When the P4 program is accessed, the following parameters are required to set the length of the speed base and the measurement unit:

L <u> </u>	Insert the number of METERS of the speed base length (0-999)
C <u> </u>	Insert the amount of CENTIMETERS of the speed base length (0-99)
S <u> </u>	Insert the measurement unit: 0 = m/s 1 = km/h 2 = mph

e.g. Speed base 400 meters measurement unit km/h

P4 L 400 C 0 S 1

When the display board receives the first impulse, it keeps displaying 0.00; after the second impulse it shows the calculated speed, displaying it until the next impulse is detected (second, third, nth lap) or the yellow Lap-Reset button is pressed.



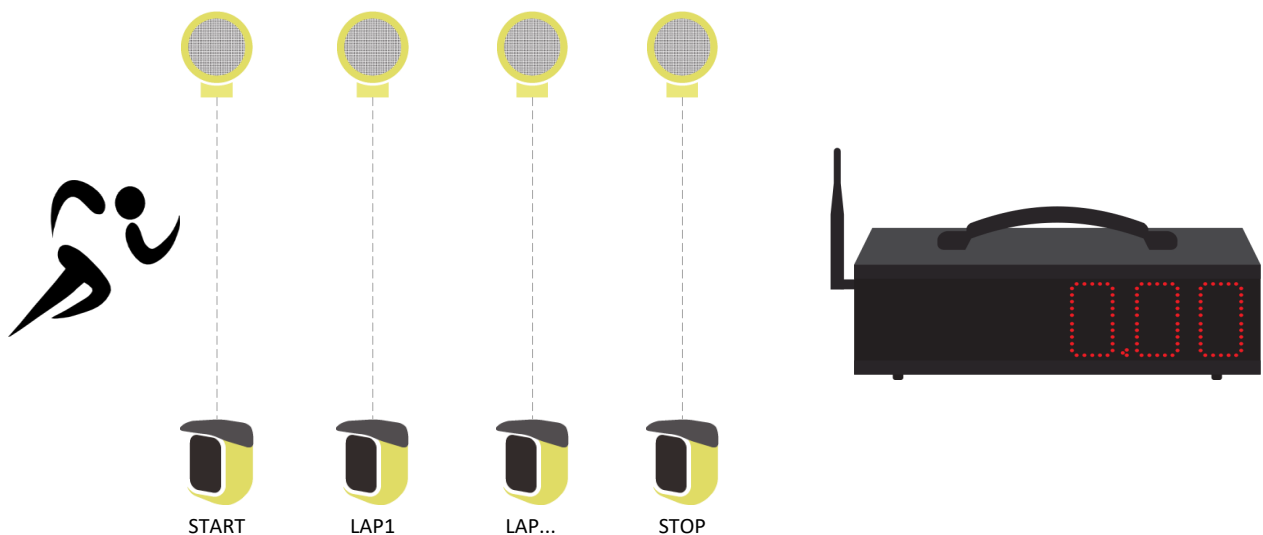
2.6 P5 – START, LAPN, STOP

Basic timing program with the possibility of defining any amount of intermediate times, as well as the display time (in seconds) of the final time.

L <u> </u>	Insert the number of LAPS (0-20); for inline timing it equals the number of photocells - 2 (exclude the start and stop photocells)
t <u> </u>	Insert the amount of SECONDS the final time is displayed (5-60)

e.g. Three intermediate and waiting times of 10 seconds after arrival before resetting the timer

P5 L 3 t 10



2.7 P6 – CONTINUOUS TIMING

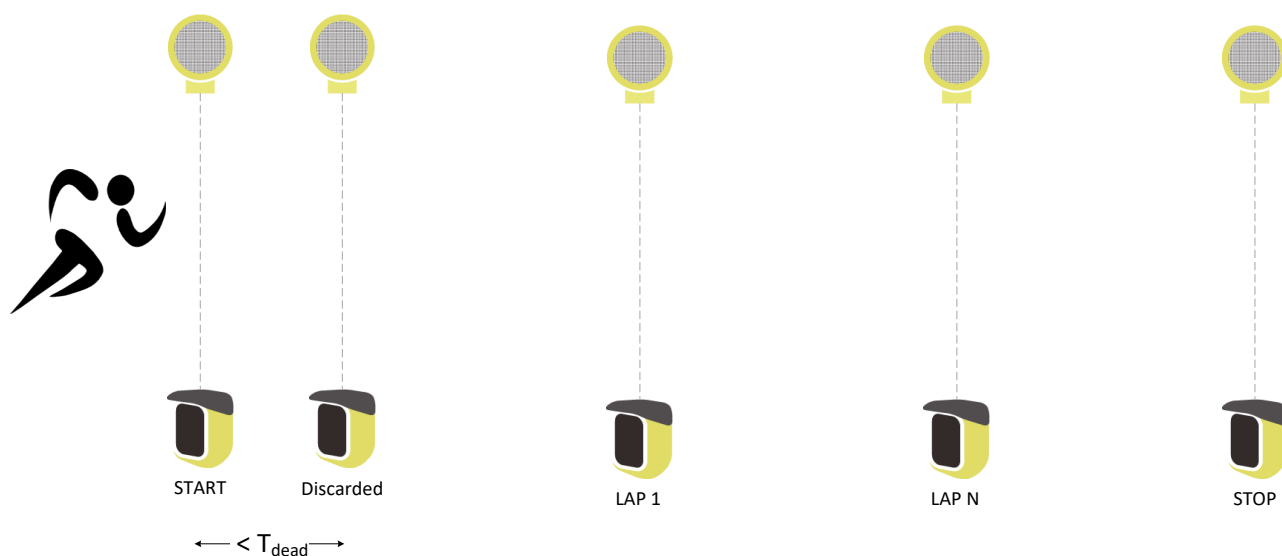
Continuous Timing Program with the possibility of setting a number of seconds - the so-called "dead time" -, during which incoming impulses are not considered.

Time keeps running until the yellow LAP-RESET button is pressed and every incoming impulse is considered as a Lap.

t —	Insert the amount of SECONDS of the dead time, during which no impulse is accepted (0-60)
------------	---

e.g. Three-seconds dead-time

P6 t 3

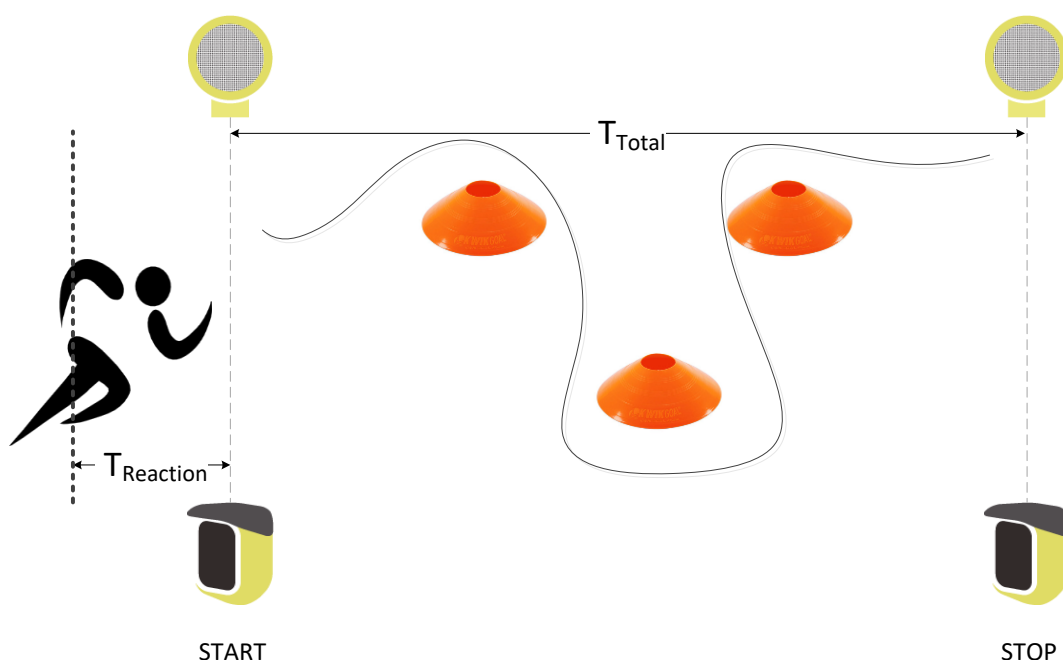


2.8 P7 – STARTING SYSTEM

Program for testing the start reaction time, a circuit or a sprint lap.

The program includes the following steps:

- the trainer (or athlete) **starts the test** interrupting the photocell or pressing the green **START-STOP** button
- The display board shows a **5-second countdown**
- After 5 seconds the display board resets and after a **random time of 0-5 seconds** the writing “GO” appears
- If the athlete starts **BEFORE** the writing GO appears, the display board detects a **false start** and shows a blinking FFFFFFFF
- If the athlete starts after the GO sign, the **reaction time** (e.g 0.31) is shown on the display board for 5 seconds
- The athlete runs his stretch and when he interrupts the photocell (the same as the start photocell on a ring circuit, or otherwise a second photocell) the total test time is displayed for 5 seconds.
- The display board goes back into waiting mode for the next athlete, displaying -----

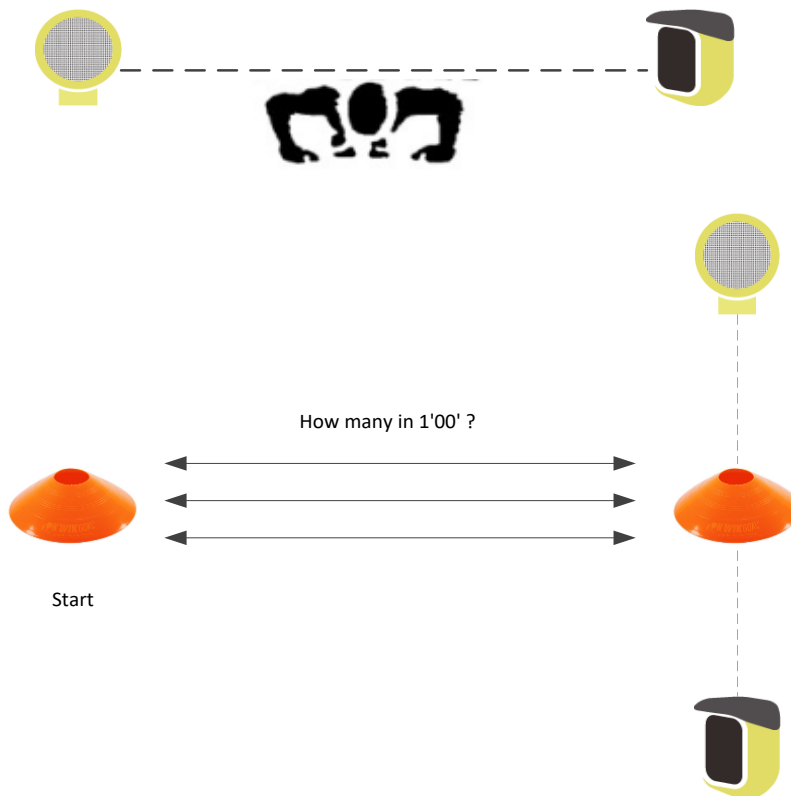


In order to have homogeneous data for various athletes, it is advisable that they all start at the same distance from the first photocell, for instance applying an adhesive strip a few cm before it.

2.9 P8 – EVENT COUNTER

This program works as a counter that is increased with each impulse (or when the green **START-STOP** button is pressed). To reset the counter press the yellow **LAP-RESET** button.

Examples of use: counting push-ups or "Go & Back" in a certain amount of time.



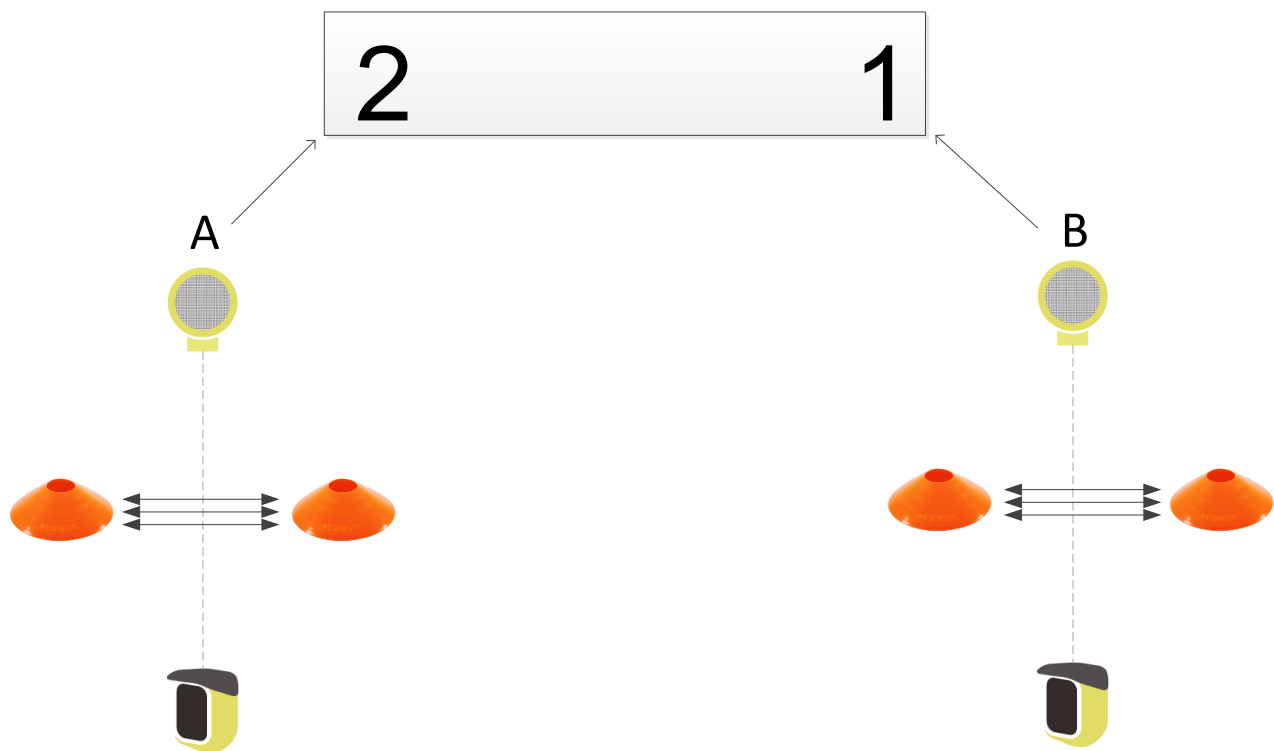
2.10 P9 - PARALLEL EVENT COUNTER

Similar to the previous program, but for parallel tests (of the same athlete or two different athletes) two photocells are used.

The first impulse of two photocells is used to define which photocell is displayed on the left side and which on the right side.

In the example below first interrupt photocell A so that it is shown on the left (the display board changes from “-” to “0”) and then photocell “B”; when both sides show “0” the test can begin.

To reset both counters press the yellow LAP-RESET button.



2.11 P10 – DATE AND TIME

This program allows you to display the date and time of the internal Witty•TAB clock. The number of seconds after which date and time alternate can be defined by the user. To set the exact time and format (EUUS) see par. 2.20

t <u> </u>	Insert the number of SECONDS after which date and time alternate (5-60)
----------------------	---

2.12 P11 – TIME

This program allows you to display the time of the internal Witty•TAB clock. To set the exact time and format (EUUS) see par. 2.20

The two possible date and time formats are as follows:

- **EU** = DD.MM.YY HH:MM:SS (24h)
- **US** = MM.DD.YY HH:MM:SS AM/PM

2.13 P12 – REACTIME

This program allows you to use the ReacTime device from Lynx to display the reaction time. A special cable (code \$CAB172) is necessary to connect the ReacTime to the jack input on the Witty•TAB.

t <u> </u>	Insert the duration in number of SECONDS for how long the reaction time should be visible (5 to 60 seconds, default 10 seconds).
----------------------	--

2.14 P13 – COUNTDOWN

This program displays a countdown. There are two types of countdowns available from the program menu:

- **P13 – 0**: Countdown from a total number of seconds.
- **P13 – 1**: Countdown from a specific time of day using the display format “HH:MM:SS”.

t <u> </u>	Insert the number of SECONDS after which the countdown, once arrived at zero, gets reset to its configured value (range 0-60 seconds).
C <u> </u>	In mode 0: Insert the duration in number of SECONDS of the countdown (range 5 – 1000)
xx:xx:xx	In mode 1: Insert the duration of the countdown in the format hours:minutes:seconds

The countdown starts with the green button **START-STOP** or by an external impulse (for example from a Witty•GATE) and can be reset by pressing **LAP-RESET**.

2.15 P14 – LAP TIME

This program allows you to display the Lap times. The run time is automatically starting on the first received impulse and for each subsequent impulse the lap time is calculated and displayed based on the previous impulse.

To stop and reset the run time press **LAP-RESET**.

2.16 P15 - WITTY•SEM

This program allows to combine the use of the Witty•SEM devices with the Witty•TAB by showing the run time or counting the number of impulses. Within this program the Witty•TAB is acting similar to a Witty•SEM: It receives the test configuration via radio from the Witty chronometer and is auto-configuring itself by choosing the display mode depending on the test configuration.

The program is supporting the following test types of the Witty•SEM:

- **Change Direction:** Shows the time between the first activation of the Witty•SEM to the next impulse of a photocell.
- **Agility:** In case the test has been configured with a timeout, but without limit of the number of impulses, Witty•TAB is showing the number of impulses received from the Witty•SEM. Otherwise it shows the run time and the lap time for each impulse.

2.17 P96 – PHOTOCELL FILTER

The photocell filter allows you to configure a filter to accept impulses from certain photocells only.

- This filter gets reset every time this program gets activated and on startup of the Witty•TAB.
- To enable the filter: Activate this program and register all allowed photocells by interrupting their light beam. The number on the display is showing the current number of registered photocells.

2.18 P97 - LED SEGMENTS TEST

The Test Segment Program is used to check the correct functioning of LEDs: the display board turns all 7 segments of the 6 digits and all punctuation marks on and off. If a segment or a LED does not turn on, please contact our technical support.

Pressing the green **START-STOP** button, the test of each segment is alternated when all segments are turned on simultaneously (full display test). To begin a new test press the yellow **LAP-RESET** button.

2.19 P98 - PHOTOCELL RADIO SIGNAL TEST

The Radio Signal Test Program allows checking the correct functioning of radio transmission between photocells and the display board, as well as the signal power (0-100%).

Enter the P98 program and generate an impulse interrupting the photocell/reflector beam. If nothing appears on the display board, check (and change) the transmission channel as per program P99 (see chap. 2.20).

If the impulse is received, on the left side a counter is shown which increases with each impulse and on the right side the percentage indicating the signal power.

To begin a new test press the yellow **LAP-RESET** button, in order to reset the counter and percentage.

2.20 P99 – PARAMETER CONFIGURATION

The program P99 allows setting three different parameter types, i.e. the radio channel, the brightness, and internal time/date.

Changing the Radio Channel (display board and photocells are set on CH.1 by default) may be necessary to prevent frequency collisions with other Kit Witty-TAB on the field.

Put the n photocells that must be set into "*configuration mode*": turn off the photocells and then press and hold the on/off button for 5 seconds (see chap. 1.3.2). When all photocells have a red blinking light, continue with the channel configuration on the Witty-TAB. Confirming the channel number with the yellow **LAP-RESET** button, it is transmitted to all listening photocells emitting a dual tone beep, restarting them and turning them on in normal mode. Use the P98 program (chap. 2.19) to ensure that the channel has been set correctly.

CH _	Insert the radio channel number (1-8) assigned to the display board and to all photocells which are in " <i>configuration mode</i> " in that moment
L _	It is possible to choose between Automatic ("A") brightness or set to a fixed value of 0-100 (with steps of 5), where 100 is the maximum brightness and 0 the minimum. (see also chap. 1.6)
d:t: __	Choose the date/time format, either "EU" (= DD.MM.YY; HH:MM:SS 24h) or "US" (MM.DD.YY HH:MM:SS AM/PM)
12: __	(Only for the US format) Select if the inserted time is AM/PM
Date	Insert Day, Month, Year (or Month, Day, Year for the US format)
Time	Insert Hours, Minutes and Seconds of the current time (for the EU use the 24h format)
rt: _	Enable the Lynx ReacTime: OFF.. ReacTime function disabled On.... ReacTime function enabled Please note, that the external reset is being disabled while this function is active (see below). (The Lynx ReacTime device must be programmed with the special firmware 1.51b05 and Witty-TAB is supporting this function starting from firmware version 1.00.05; Configuration ReacTime: Menu Training 12V Mode Pulse)

dISt: _	Global setting which defines the display duration of the final time: 0..99s Value 0 = No reset of the final time until a new impulse is received
PrEC:	Precision of the final time: 0.. Seconds 2.. Hundredths
rES: _	External reset on jack input: OFF.. External reset disabled On .. External reset enabled The external reset gets disabled automatically if the ReacTime function is active.

When confirming the last settings using the yellow **LAP-RESET** button, the previously selected program appears.

3 FCC CONFORMITY

The Witty-Timer, Witty-Gate, Witty-Sem, Witty-Tab and Witty-Rfid comply with the following requirements:

- FCC (Federal Communications Commission) Part 15

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC IDs: Witty-Tab 2ADEOWIT204

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