

Timing



Cyclestart

ALGE-TIMING

Table of Content

1	Description	3
2	Mounting	3
2.1	Mobile version	3
2.2	Permanent version	3
2.2.1	Sketch of the mobile version	4
2.2.2	Sketch of the permanent version	5
3	Program-specific adjustments	6
3.1	Countdown time	6
3.2	Warning signal (audio warning)	6
3.3	Quantity of Laps	6
4	Interfaces and channels	7
4.1	C0 and C3: Startmachine, C0 also synchronous start	7
4.2	C1 and C4: Lap-counting	7
4.3	C2 und C5 : Back-up timing	7
5	Operation	8

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Technical changings reserved in sense of improvement!

1 Description

The program CycleStart was developed especially for track cycling competitions. Two displayboards, 2 cycle-startmachines and one loudspeaker signal can be controlled.

At cycling (chase), the start will be made with cycle-startmachines which are triggered off by a potentialfree contact. The start will be normally after a 50 seconds lasting countdown with a warning signal at 30 seconds and an acoustic 5-seconds-countdown.

After the countdown ends, the Timy automatically switches to the function Lap Counter and Back-up.

Program Lap Counter consists of 2 separate lap counters, which can be controlled with the buttons Start and Stop or via 2 external channels.

With the back-up function, you will be able to stop the time of every driver separately using push buttons. The push buttons will be connected to the display board. It registers all net time.

2 Mounting

There are 2 different versions for the CycleStart system.

- ☞ mobile version
- ☞ permanent version

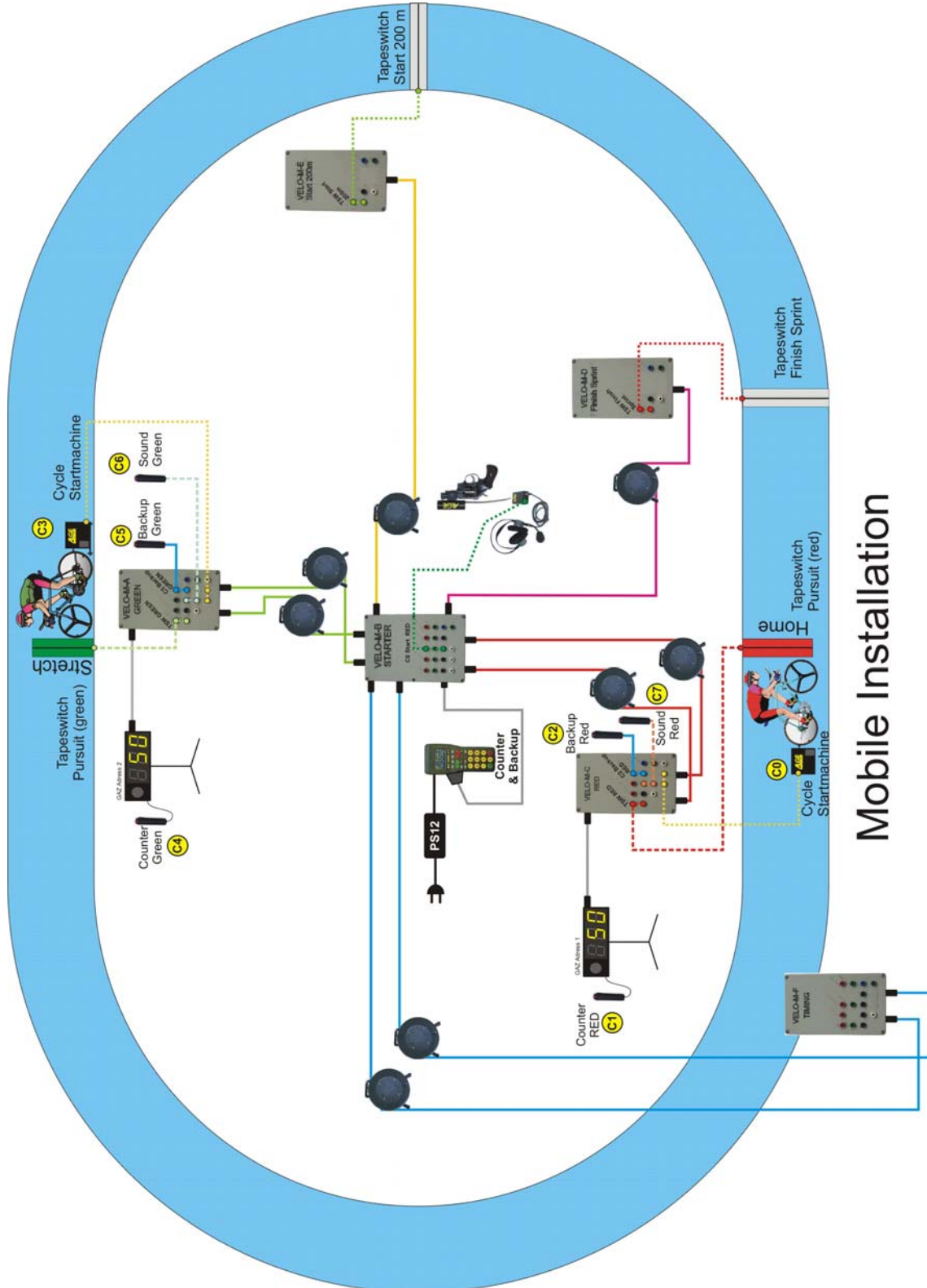
2.1 *Mobile version*

This version is used for mobile timing systems with will be used in different stadions. All distributor plug sockets are equipped with 7-pin amphenol-plugs and can be connected together with our standard cables 200-xx or with cable reel T200.

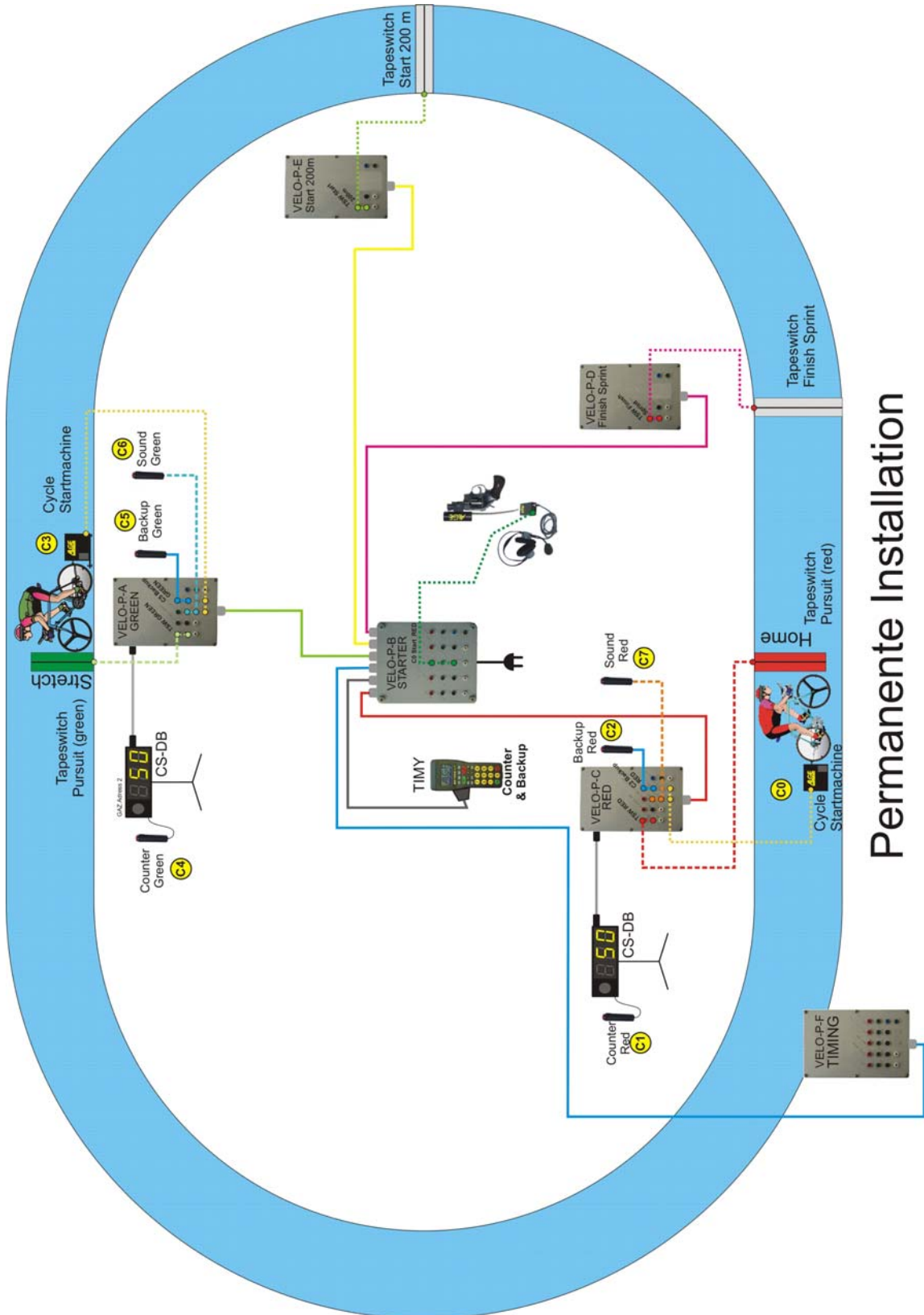
2.2 *Permanent version*

Version for fix wiring. The big advantage is the fact that less cable must be laid on the surface.

2.2.1 Sketch of the mobile version



2.2.2 Sketch of the permanent version



Permanente Installation

3 Program-specific adjustments

3.1 Countdown time

The countdown time must be chosen variably. Basic adjustment is 50 seconds. You can start the countdown mit the Start button.

The countdown can be stopped (stop button) and continued (start button) any time. The countdown time must occur at GAZ-address L (L ... all addressed displayboards).

If you indicate for the countdown time 0:00h, the programs Lapcounter and Back-up will immediately start. The Timy waits for a start impulse at channel 0. Before receipt, you can add a new start number if necessary.

3.2 Warning signal (audio warning)

The beep tone should happen at 30, 25 and 10 seconds. The values should be variable and you should be able to switch them on and off.

3.3 Quantity of Laps

The adjustment of the quantity of laps (3-digit) should be possible at any time. Normally, the quantity of laps will be indicated before the countdown starts. Standard lap quantity is 0.

- Output of GAZ-address A for participant Red (channel C2).
- Output of GAZ-address B for participant Green (channel C4).

If you indicate for lap quantity 0, it will count up. If it is not 0, it will count down of this value.

4 Interfaces and channels

4.1 C0 and C3: Startmachine, C0 also synchronous start

With C0 and C3, the startmachines are controlled. When the countdown time reaches zero a it gives the start output as well on channel 0. and the Timy switches to the Lapcounter/Back-up mode. When time does not countdown, than you have to start with channel C0.

4.2 C1 and C4: Lap-counting

C1 and C4 are for counting laps of the two participants red and green.

- C1 is for participant red (GAZ-address A).
- C4 is for participant green (GAZ-address B).

No output on printer or RS232-interface. C1 and C4 can either be connected to a photocell or manually controlled with a push button.

If you push C1 or C4 less than 2 seconds, it will count up. If you push them for 2 seconds or longer it will count back.

4.3 C2 und C5 : Back-up timing

C2 and C5 are for back-up of participants Red and Green.

- C2 is Red
- C5 is green.

The output on the printer should print the color identification Red or Green instead of the channel information, the same is valid for RS232 interface.

The printer and RS232 will always receive the lap figure which is actually shown in the display and on the displayboard.

If you connect C1 with C2 (resp. C4 with C5), the lap figure (lap quantity) will switch. Afterwards the time and the lap quantity will be indicated.

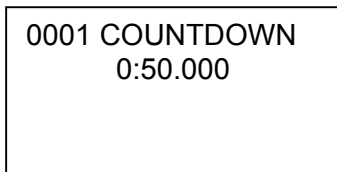
You can also indicate the times after the race to the printer and RS232.

5 Operation

Standard the program starts as follows:

Countdown time : 50s
 Warning signal : at 30, 25 and 10 s
 Quantity of laps : 0

Before the start the display shows the following:



Top left: sequence number

Countdown time also shown on all addressed GAZ.

All external channels are blocked.

If you require another sequence number, you can indicate this BEFORE the countdown starts. If the countdown is started, you can't indicate another sequence number – unless you will go to menu „CYCLESTART->NEW RUN“.

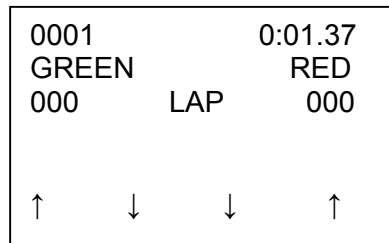
Now you can start the countdown with the START button.

With the STOP button you can stop the countdown and continue with the START button.

If the countdown time reaches warning signal times (30, 25 and 10 seconds), you will hear a 400Hz-tone for 1 second.

Further this tone will appear at 5, 4, 3, 2 and 1 seconds (for 0,3 seconds).

After the countdown has finished it resounds a 800 Hz-tone for 0.15 seconds and Timy will start the programs Lapcounter and Back-up:



Quantity of laps: Red on GAZ (A)
 Green on GAZ (B)

F0 Green F1 Green F2 Red F3 Red function keys
 to count on the lap

The arrows in the display shows like seen above if you indicate for „Quantity of laps = 0“. If this value unequal to 0, all arrows will show in different directions.

A display of a lap quantity of less than 0 is impossible. If 0 is reached, the display will remain at value 0. The quantity of laps can also be indicated via the external channels C1 and C4.