

RallySafe User Manual



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1. WELCOME

For your and other competitor's safety it is important that you are familiar with the use of the RallySafe unit, herein referred to as "the unit" or "the RallySafe".

The RallySafe System is designed to increase competition safety by providing 'live' status awareness to all cars as well as safety notifications which inform event management and assist drivers to avoid secondary incidents, improve response times and provide accurate and reliable event times.

The following document outlines the basic features and functions of the RallySafe unit.

If you have any questions, please do not hesitate to contact the team at RallySafe or alternatively ask your fellow competitors.

2. POWERING THE UNIT ON

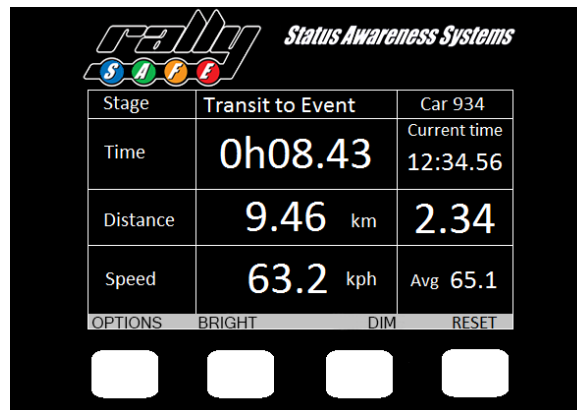
The unit is pre-installed with all special stages (coordinates) and is activated when it is switched on. Please power the unit on early before the event to give it time to run checks. When the unit starts, it

shows the transport mode. The details of the transport mode are described in point 3.1 of this manual. The unit must not be switched off during the entire rally, as it automatically goes into sleep mode after a few minutes of inactivity. The unit starts itself when the vehicle is moving, or one of the four buttons is pressed. It is recommended that the unit never be switched off during the rally. This ensures that the internal battery is always charged in the event of an emergency.

3. STAGE MODES

The unit has two modes. When in a competitive stage the unit will go into stage mode, and all other times it will be in transport mode

1. TRANSPORT-MODE: Outside a stage, the system is in transport mode [s. Section 3.1].
2. Stage-Mode: On a stage, the system automatically goes into stage mode [s. Section 3.2].



3.1 Transport-Mode

Transport mode points from top to bottom

[FIG 1]:

- the name of the next point (control) to which you are going [Transit to „Event“],
- In Transport mode the unit shows the transit time [transit time],
- In stage mode the unit shows the stage time [stage times]
- The actual time [current time]
- the total and partial kilometers [main / intermediate]
- the speed and the average speed [speed / average]

The unit has four white buttons that have different functions in the different modes. These are each displayed above the buttons. From left to right you have the following options:

- **OPTIONS:** Options [selection of different functions]
- **BRIGHT:** Increase the screen brightness [Please note that the unit displays must always be clearly readable! Therefore, the maximum brightness is recommended during the day.]
- **DIM:** Reduction of the screen brightness
- **RESET:** Reset [the partial mileage is set to "0"]

In transport mode in between stages, it is possible to carry out various functions under OPTIONS (far left button in transport mode) [Fig. 2 & 3]:

1. Display of times
2. Triggering a manual alarm

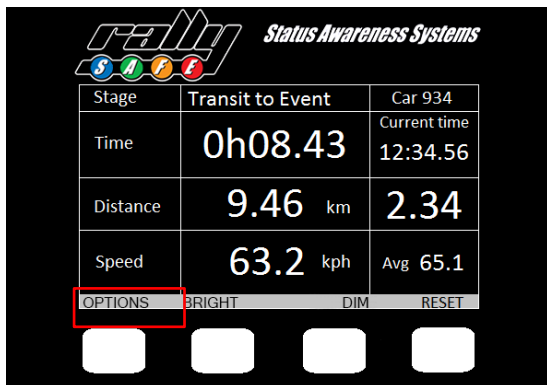


Fig. 2: Options in transport mode

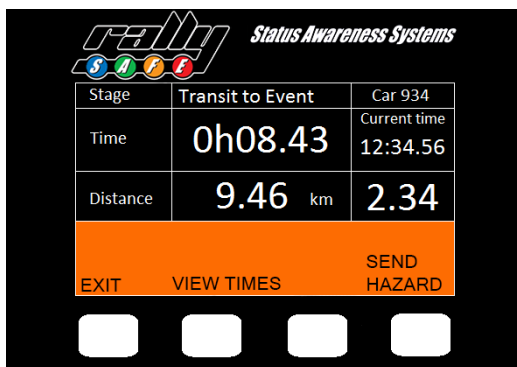


Fig. 3: Transport mode - EXIT / DISPLAY OF TIMES / TRIGGERING A MANUAL ALARM

3.1.1 Display of times

If you press the button under "VIEW TIMES", the provisional driving times on the transport and the times of the special stage are displayed. With the "NEXT" or

„PREV“-button you can scroll forwards or backwards [Fig. 4].

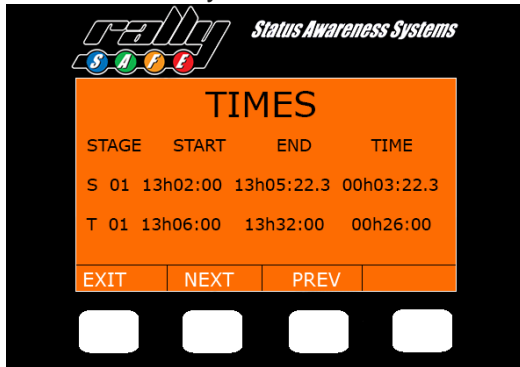


Fig. 4: Display of times

3.1.2 Trigger manual alarm

The tracking system allows you to send a manual alarm in transport.

This is triggered in the options menu and can be expanded to an **SOS** but can also be reduced to an **OK**.

If the warning is no longer required, it can be deleted by pressing the two middle buttons ("Press to Cancel").

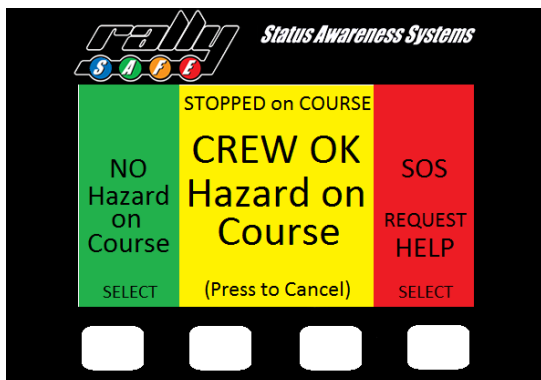


Fig 5: Manual Alarm

3.2 Stage mode

When the starter assigns you your special stage start time, the countdown to the start of the special stage is displayed on the screen.

At the same time, the Stage number and your start time are displayed in the white field in the lower half of the screen **[FIG 6]**.

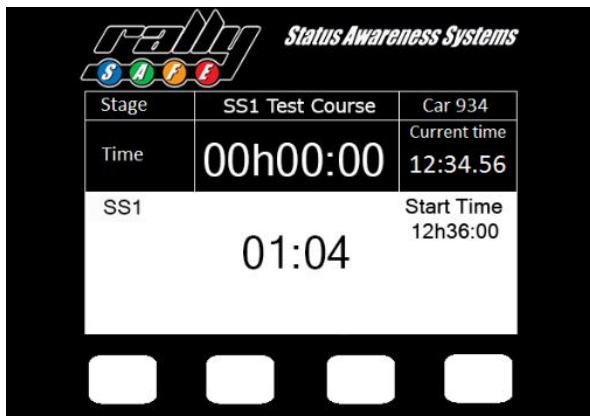


Fig 6: Countdown to the start of the special stage

At your special stage start time, the screen changes to GREEN, shows "GO" and you can start the special stage **[FIG 7]**.

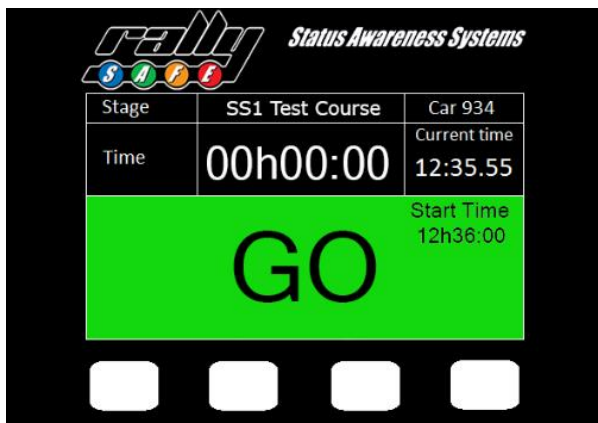


FIG 7: Start of the Stage

After you have started, the screen changes to Stage mode ("ON STAGE"). The unit starts with the timing [FIG 8].

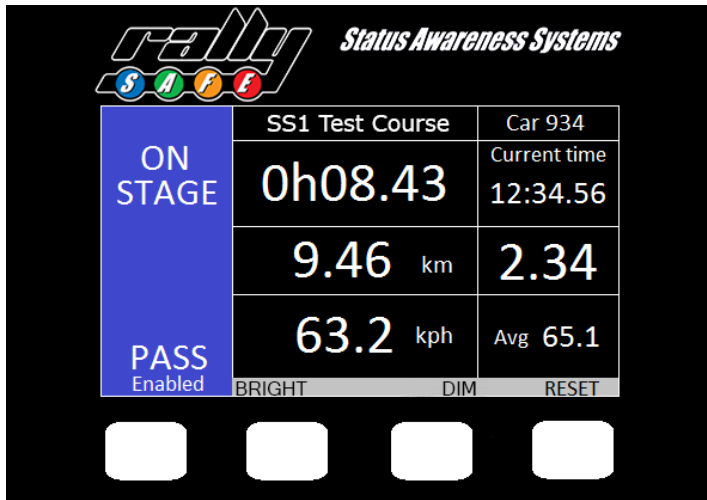


Fig 8: Stage Mode.

4. WARNINGS AND ALARMS

The most important function of the unit is to inform the rally management (rally control center) about incidents on the special stages. Incidents on the stage are reported to the control center at different levels depending on the dangers.

If a vehicle stops on the special stage (e.g. if a tire is changed, a technical defect), the unit automatically sends a warning (HAZARD) to the control center.

As the driver, you must react to this as quickly as possible in order to inform the control center of your individual situation [FIG 10]:

1. Press the button below **OK** [OK button] or
2. Press the button below **SOS** [SOS button].

A timer counts up to 60 seconds to indicate that you have to press a button.

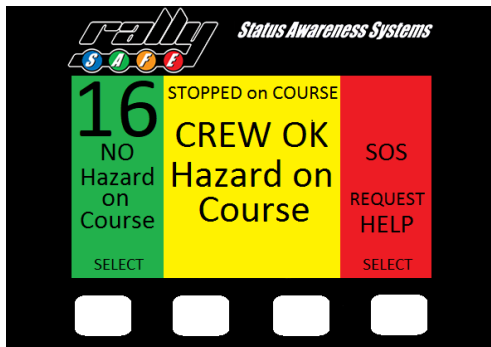


Fig. 10: Warning (HAZARD) - **OK** or **SOS** has yet to be confirmed

If you select **OK** after a warning, it signals that no help is required and that the vehicle does not pose any danger to the following drivers. **OK** is displayed on your screen [FIG 11].

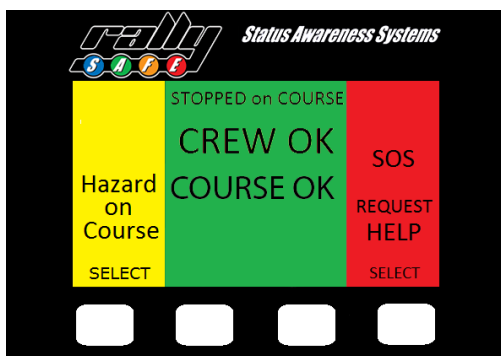


FIG 11: Screen for **OK** confirmation

If you press the **SOS** button, you must react again to inform the control center of your individual situation [FIG 12]:

1. Press the button under **FIRE** [EMERGENCY WITH FIRE] or
2. Press the button under **MEDICAL**. [Medical Emergency]

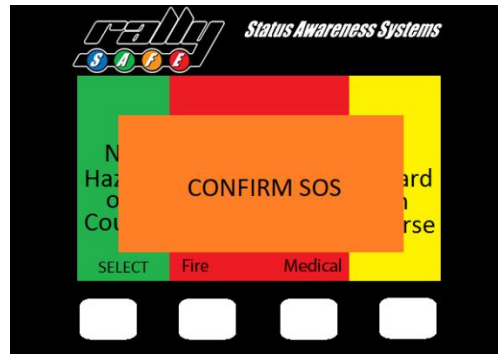


FIG 12: Confirmation whether fire or medical emergency

If an emergency (fire or medical) has been confirmed by the driver, **FIG 13** (medical sent) or **FIG 14** (fire sent) will be displayed on your unit.

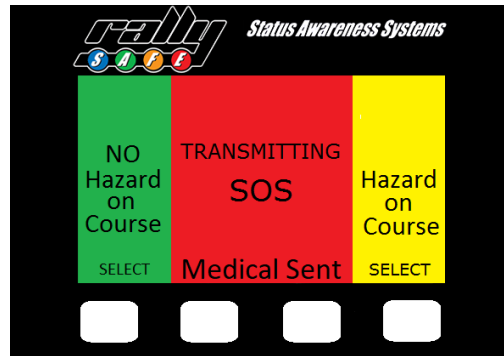


FIG 13: SOS- Notice when the MEDICAL button is pressed

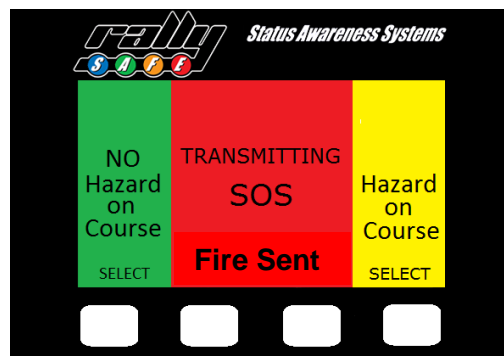


FIG 14: SOS-Notice when Fire button is pressed

Regardless of whether you have pressed the SOS, FIRE or MEDICAL button, it is always possible to downgrade to an OK again. All you have to do is press the **OK** button [s. 13 & 14]. The same applies if you first pressed the OK button. Here, too, an emergency can be activated later by pressing the **SOS** button [s. Fig. 11].

If the vehicle is involved in an accident with high G-forces, an automatic **SOS** message is sent and displayed on the unit. This message can be downgraded by pressing the **"OK"** button. [s. **FIG 12**].

5. CAR TO CAR COMMUNICATION

If a vehicle is on or next to the road, the following warning signals will be received by the vehicle.

1. Vehicle is on or next to the road - status not yet confirmed **[HAZARD]** **[Fig. 15]**
2. Vehicle is on or next to the road - Status **OK** **[Fig. 16]**
3. Vehicle is on or next to the road - Status **SOS** **[Fig. 17]**

When you approach a vehicle that is in front of you on or next to the road, a warning sign and the status of the vehicle involved in the accident are automatically displayed. In this case, the drivers involved in the accident neither issued an **"SOS"** nor an **"OK"** **[Fig. 15]**.



FIG 15: Warning - Vehicle is on or next to the road, status not yet confirmed **[HAZARD]**

When you approach a vehicle that is in front of you on or next to the road, a warning sign and the status of the vehicle involved in the accident are automatically displayed. In this case, the driver involved in the accident pressed the **OK** button [Fig. 16].



FIG 16: Warning -Vehicle is on or next to the road, status **OK**

When you approach a vehicle that is in front of you on or next to the road, a warning sign and the status of the vehicle involved in the accident are automatically displayed. In this case, the driver involved in the accident triggered an alarm and pressed the **SOS** button

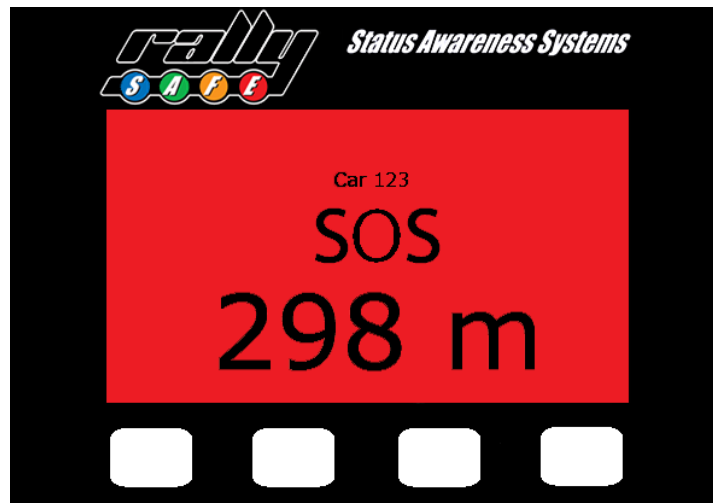


FIG 17: Warning - Vehicle is on or next to the road, status **SOS** - Alarm triggered.

6. RED FLAG

In the event of a serious incident (e.g. accident with high G-forces), the special stage can be canceled by the rally management.

The **RED FLAG** is displayed on the entire screen until it is confirmed by the driver. To do this, you **MUST** confirm the **RED FLAG** by pressing the leftmost button under **"ACKNOWLEDGE"** [FIG. 18]!

If RED FLAG is displayed, you must adapt your driving style in accordance with the rally regulations or the event announced.

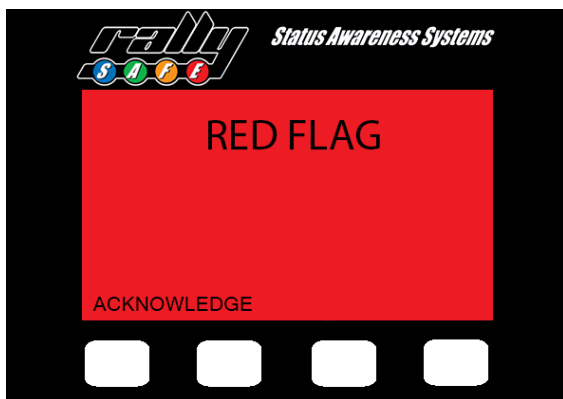


FIG 18: RED FLAG & Acknowledge

After the RED FLAG has been confirmed, the normal special stage functions are displayed with a red warning message [Figure 19].

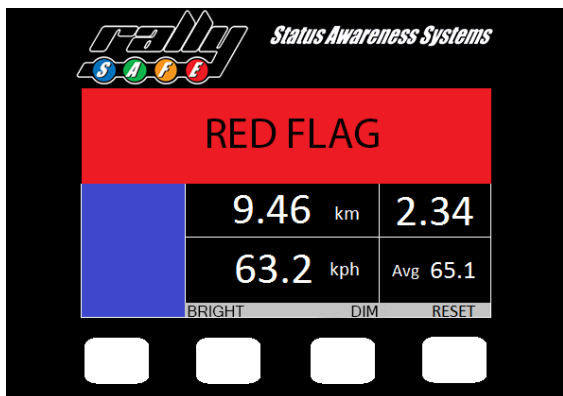


FIG 19: RED FLAG in Stage Mode.

7.Push to pass

To warn slower cars that you want to overtake, press the PASS button on the left side of the screen.
(fig 20)

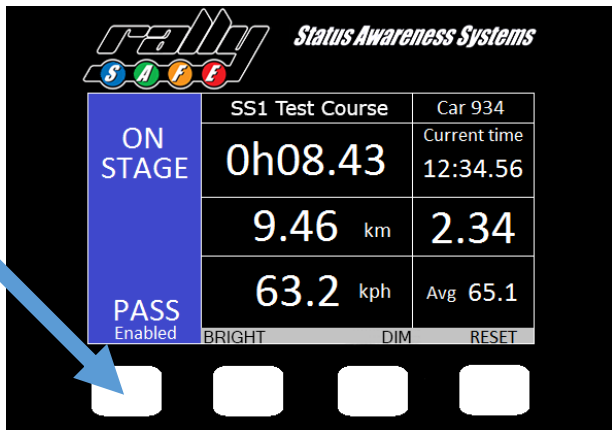
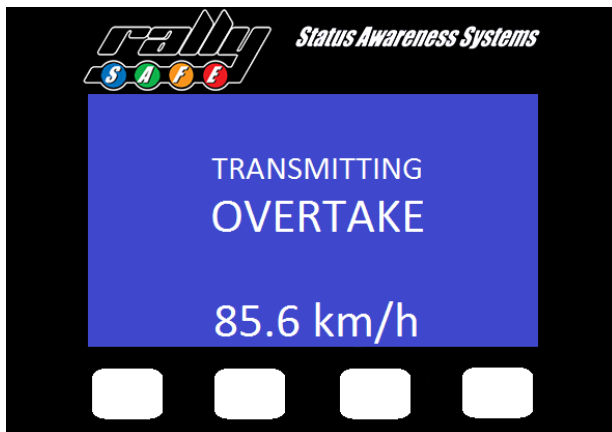
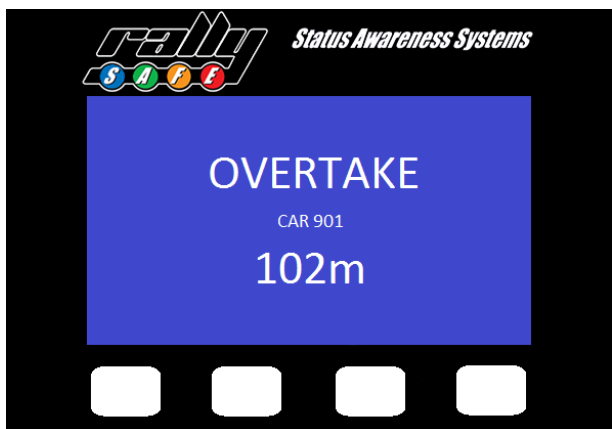


FIG 20: Push to Pass Button (if this button is not visible the event has disabled this option.)

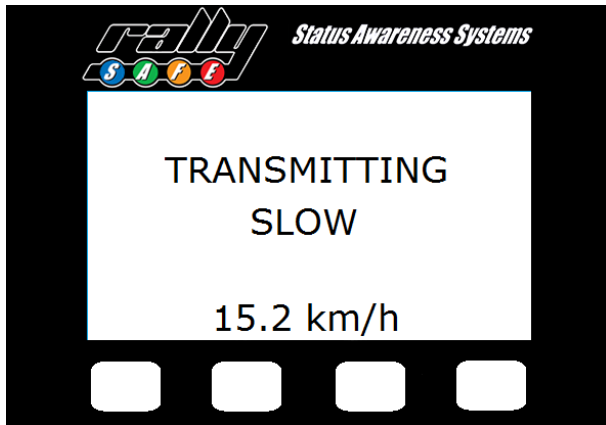


This will send a message to the vehicle in front of you, up to 200 meters, and the device will display TRANSMITTING OVERTAKE on your screen.



The vehicle in front receives an overtaking request specifying the distance between the vehicle and the vehicle number that is trying to overtake.

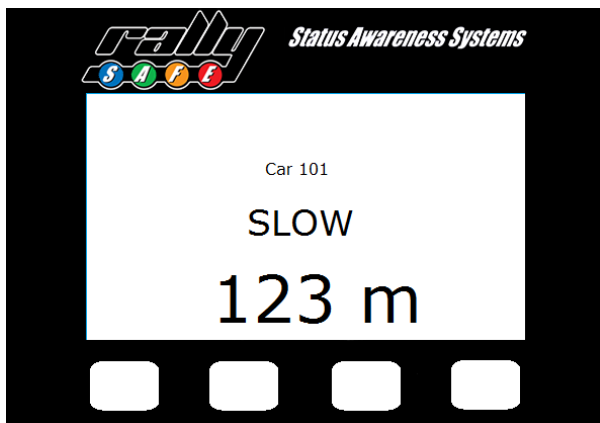
8.Slow Car



When the speed drops below 30km / h, the device sends a SLOW CAR notification.

This will send a message to the vehicle behind and the device will display TRANSMITTING SLOW.

If the speed is more than 30km / h, the screen will return to the STAGE MODE.



The next vehicle receives a slow car and the distance to the car.