# AL KAMEL SYSTEMS PP Tracker System

Timekeeping Services | Race Control Solutions | TV Graphics | Rally Tracking
Security Services | Road Book Services| Radio Systems | Turnkey Projects

The PPTracker System provided by Al Kamel Systems is the official and mandatory Rally Tracking system for the 28 Rallye de la Nucia Mediterraneo event belonging to the Spanish Super Rally Championship. Next, you will be able to observe and consult the user manual of the PPTracker device.

This system will be used for stages and Shakedown, for reconnaissance the PP2 Tracking System will be used.

The PPTRACKER SYSTEM device is a GPS tracking and signaling system designed for rallies and off-road competitions. The purpose of this equipment is to improve the safety and visibility of the competition teams in this type of event.
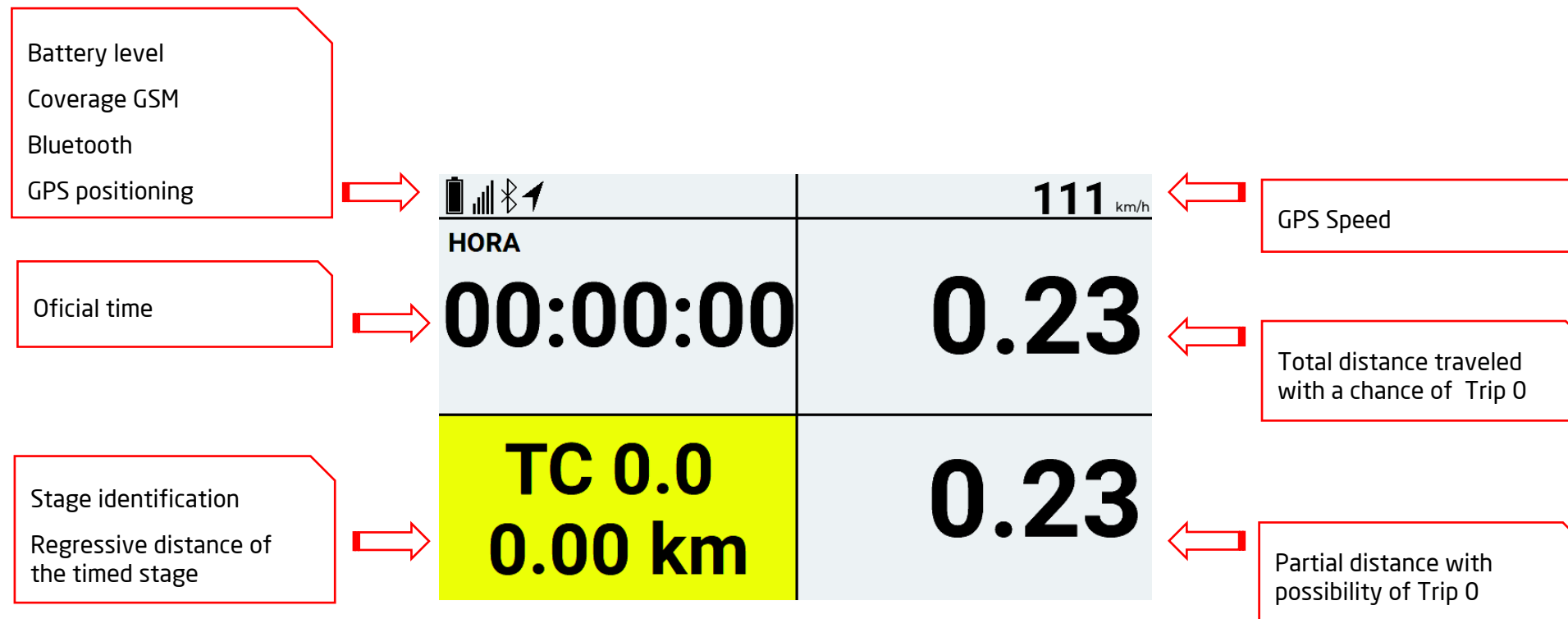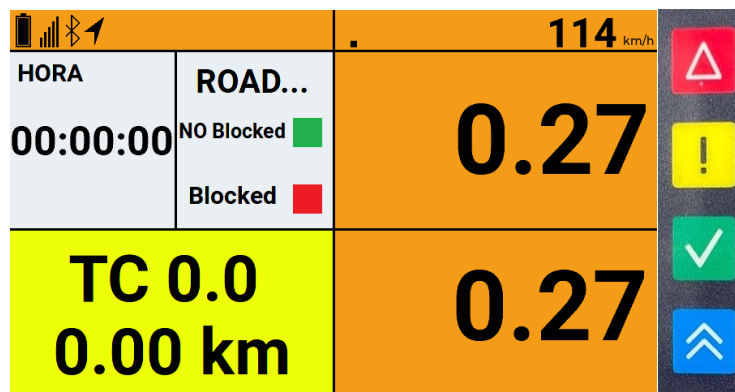


Photo 1. PPTracker Overview

Battery level

Coverage GSM

Bluetooth

GPS positioning

Oficial time

Stage identification

Regressive distance of the timed stage

GPS Speed

Total distance traveled with a chance of Trip 0

Partial distance with possibility of Trip 0

**HORA**

**00:00:00**

**111** km/h

**0.23**

**TC 0.0**
**0.00 km**

**0.23**

Photo 2. PPTracker main screen

Para indicar que el vehículo de competición se ha detenido a causa de una avería, se debe pulsar el **BOTÓN ROJO** situado en la parte derecha del Display durante 3 segundos, y el Display se ilumina en color naranja, pidiendo la confirmación si la pista está bloqueada o no.
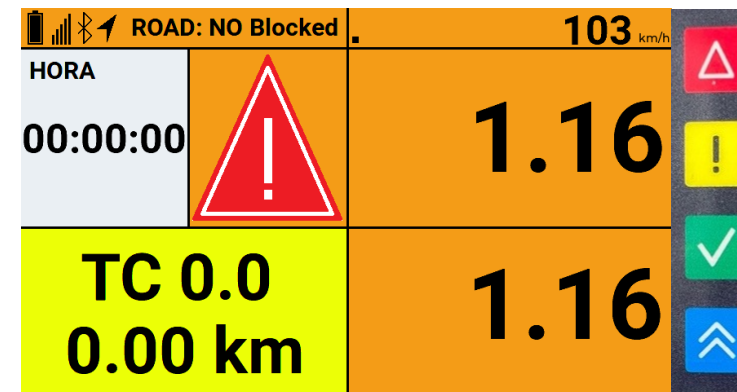


RED BUTTON – 3 SECONDS

**Photo 3. Display BREAKDOWN CONFIRMATION**

**RUNWAY BLOCK OR NOT**

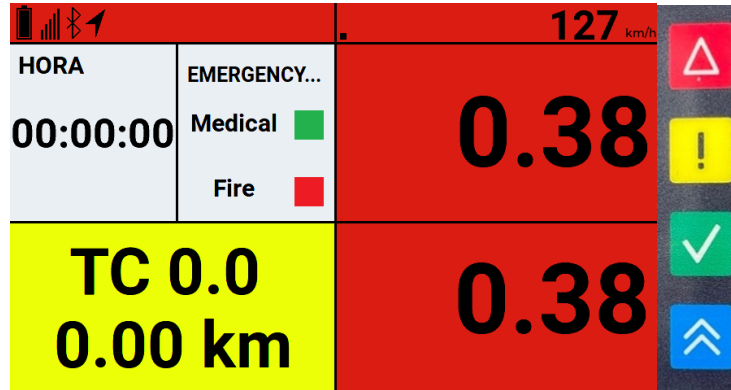If the track is not blocked, the GREEN button must be pressed, leaving the display as in Photo 4.



GREEN BUTTON

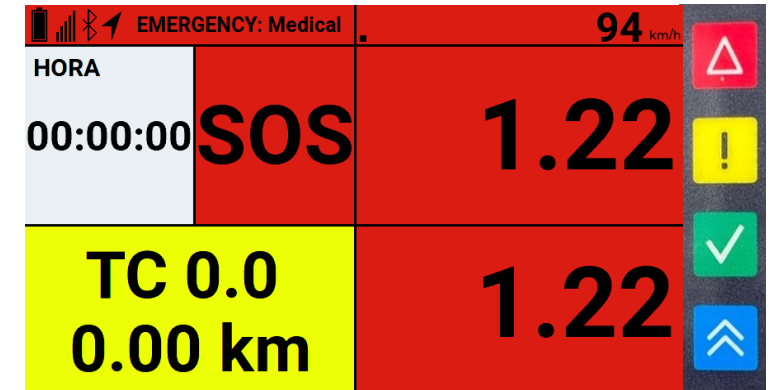**Photo 4. Display BREAKDOWN CONFIRMATION**

**NO BLOCKED ROAD CONFIRMATION**

In case, road re blocked, push RED Button

To indicate that a vehicle has been involved in an accident, the RED and YELLOW button located on the right side of the Display must be pressed simultaneously for 1 second. And the screen will be displayed as per photo 5.



RED BUTTON+ YELLOW BUTON

PUSH SIMULTANEOUSLY – 1 second

**Photo 5. Display SOS Emergency, Type MEDICAL O FIRE**



GREEN BUTTON

**Photo 6. Display SOS Emergency - MEDICAL CONFIRMED**

If the intervention of the medical services is necessary, the GREEN button must be pressed, leaving the display as in Photo 6.

If the intervention of the firefighters is necessary due to a fire, the RED button must be pressed, leaving the display as in Photo 7.
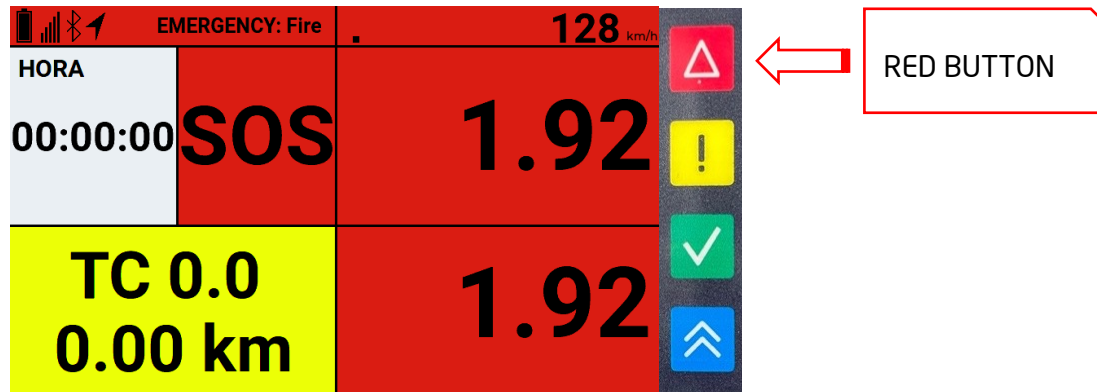
RED BUTTON

**Photo 7. Display SOS Emergency - FIRE CONFIRMED**

The rest of the vehicles that approach the vehicle that reported the incident will receive a warning on the display with the message EMERGENCY: FIRE OR MEDICAL, with a flashing RED background and the distance from the affected vehicle.
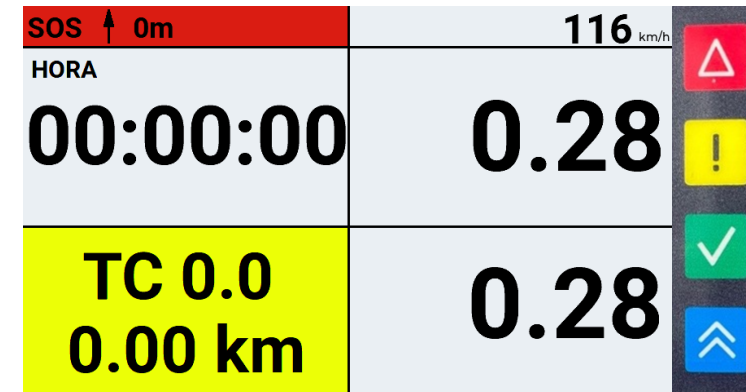


**Photo 8. Display APPROACH TO SOS VEHICLE**

If the Race Direction thinks it is appropriate to cancel the section, the display will turn flashing red, showing BAND. RED and CANCELED!

Photo 9. Display RED FLAG – STAGE CANCELLED

GREEN BUTTON

It will be necessary to press the GREEN button to confirm receipt of the RED FLAG.
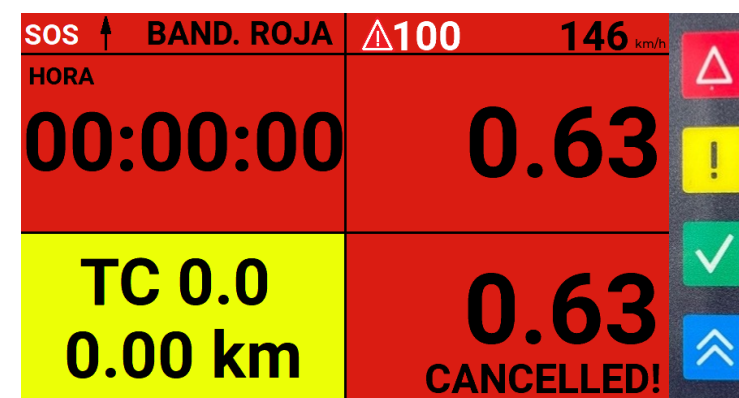


PHOTO 10. Display RED FLAG – STAGE CANCELLED confirmed

To indicate to the preceding vehicle that an overtaking is requested, it is necessary to be at a predetermined distance within a range established by Race Direction. This overtaking can be requested in advance, but the message will not be sent until the two vehicles are within the allowed range. To request this overtaking, the BLUE button must be pressed for 2 seconds, leaving the display as shown in photo 11.
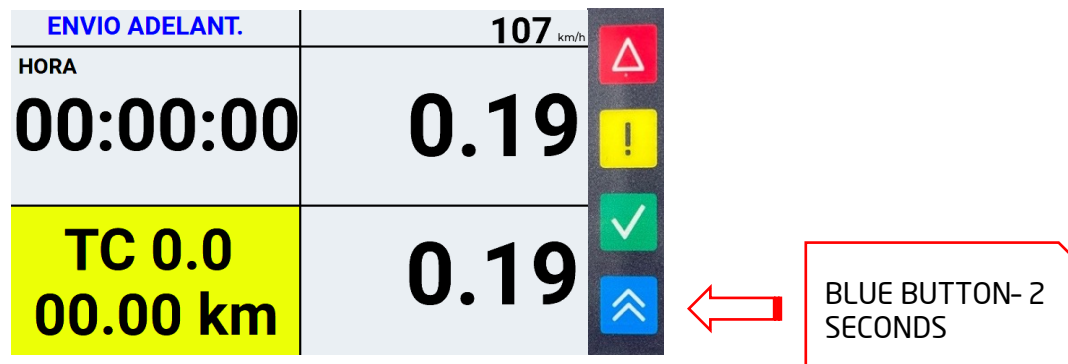


BLUE BUTTON– 2 SECONDS

**Photo 11. Display OVERTAKING REQUEST OUT OF RANGE.**

As soon as the two vehicles are within the overtaking range, the requesting vehicle will receive WAITING OK in solid blue.



**Photo 12. Display OVERTAKING REQUEST ON RANGE**

At the moment that the preceding vehicle accepts the overtaking by pressing the GREEN button, the requesting vehicle will receive GO in fixed green.
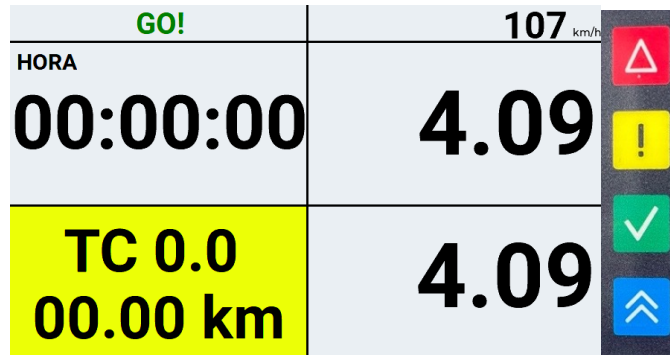
Photo 13. Display OVERTAKING CONFIRMED.
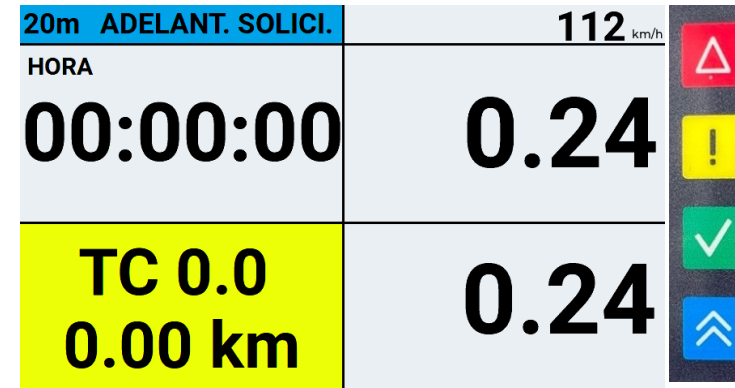
BLUE BUTTON- 2 SECONDS



Photo 14. Display OVERTAKING CONFIRMED

GREEN BUTTON

The vehicle that was requested to overtake will receive the display OVERTAKING REQUESTED in fixed blue.

# REVERSE DIRECTION FUNCTION

This screen will appear in a reverse direction situation, after having run certain meters in the opposite direction or outside the stage. The LEDs will light up in RED showing REVERSE DIRECTION.



Photo 15. Display REVERSE DIRECTION.

# DZ FUNCTION

This screen will appear when approaching a reduced speed zone. There will be a tolerance zone predetermined by Race Direction. At this time, an orange bar will appear that will also indicate the maximum speed allowed. When this speed is exceeded, the color will change to red.
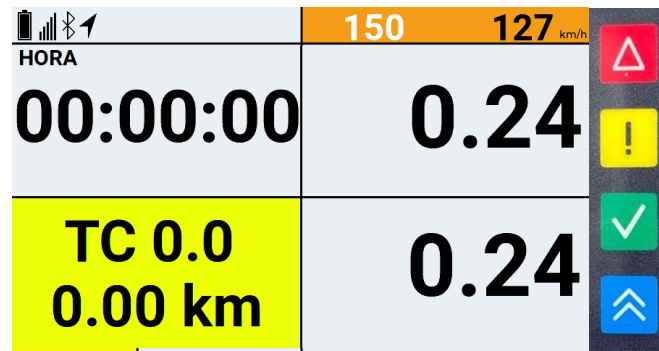


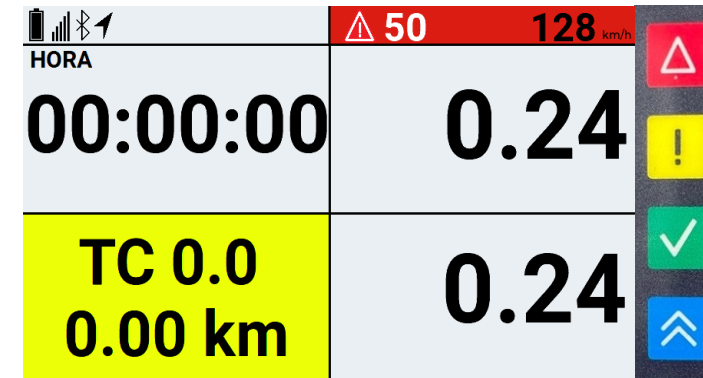Photo 16. Display REDUCED SPEED ZONE DETECTION (speed OK).



Photo 17. Display REDUCED SPEED ZONE DETECTION (excessive speed).

This screen will appear when we are in a neutralized or refueling zone. Normally, it is accompanied by reduced speed.
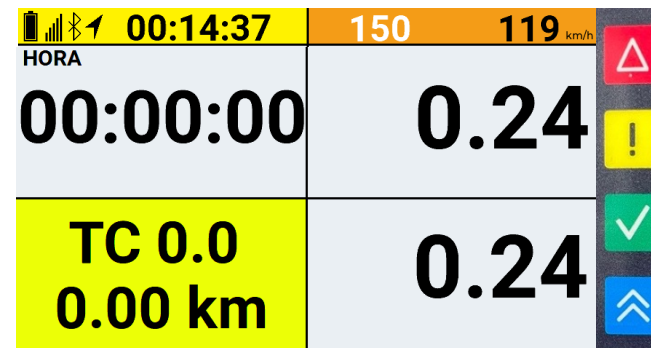


**Photo 18. Display NEUTRALIZED ZONE DETECTION AND SPEED REDUCTION.**

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