

## APP



Download the RaceSense app from the app store or google.play.

Suitable for Phone 7 and above, Android 5.5+ with NFC (make sure to click allow this app to monitor location when installing).

### 1 TO SCAN

- iPhone:** press SCAN so you see the scan popup window to enable scanning

- Android:** no need as scanning is always available if turned on in your settings.

- Hold the top of your phone to the NFC logo on the rear centre of your RaceSense (some phones may have a different nfc antenna location).



Once synced you'll hear a beep and the phone will upload your data (if you don't hear a beep then move your RaceSense a little so it's closer to the NFC antenna in the phone).

You can now view the data (the location will be marked as where you were when you synced the data).

### 2 DATA

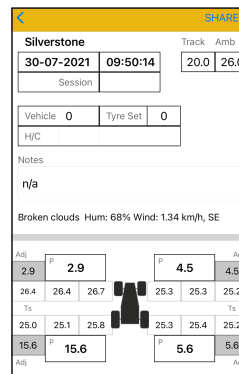
- SORT:** tap on any column header in the data table to sort by that one.
- DELETE:** select the record by tapping it and click the Delete record button: NOTE that this cannot be undone.
- EDIT LOCATION AND NOTES:** tap on the appropriate cell in the data table and the edit dialogue will appear (sometimes the GPS location doesn't correspond to the track name, for instance location says Fawkham when at Brands Hatch, you can map this so any future uploads at Brands Hatch show as this-just tick the "always change this location" check box. Anytime you upload from this location it will be saved as the edited text).

(landscape orientation not available in Android)

DELETE ROW EXPORT								
Date	Location	RFMaxP	RFEndP	RRMaxP	RRendP	LRMaxP	LRendP	LFMaxP
01-12-2019	Brands Hatch	31.8	30.1	33.4	31.2	32.8	31.7	34.5
05-12-2019	Brands Hatch	31.8	30.1	33.4	31.2	32.8	31.7	34.5
01-12-2019	Brands Hatch	55.6	30.1	36.7	34.1	35.3	33.8	35.7
03-12-2019	Silverstone	39.1	31.3	36.2	33.4	41.5	31.2	40.6
08-11-2019	Knockhill	39.1	31.3	36.2	33.4	41.5	31.2	40.6
10-11-2019	Silverstone	44.3	29.5	36.3	30.5	35.8	32.5	34.5
05-12-2019	Cadwell Park	45.1	31.3	46.2	32.5	45.5	31.3	44.5
11-11-2019	Cadwell Park	45.1	31.3	46.2	32.5	45.5	31.3	44.5

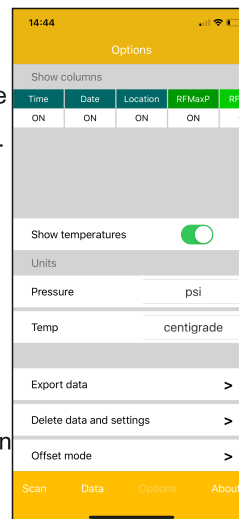
### 3 RECORD SCREEN

- VIEW** a single page for each record by tapping on column 1 or 2 (Time and Date). Or tap the LAST RECORD
- Edit NOTES, Track T, AmbT, Tyre Set No., Hot/Cold and Session name.
- SHARE** with others by email, sms, whatsapp etc



### 4 ANALYSIS

- SELECT EXPORT** from the Data table to export and analyse.
- EXPORT** a csv of all data or specific car and tyre set data.
- ANALYSE** hot and cold data- If a record has been labelled as Hot or Cold by the gauge or in the Record screen these can be selected so you can see how your cold pressures relate to your measured hot pressures in a simple screen.



### 5 OPTIONS

- CHOOSE DATA TO VIEW:** RaceSense gives you a lot of data, if you want to hide any columns you can set these or choose to hide all temperature readings by checking "hide temperatures".
- SELECT UNITS:** RaceSense syncs data in default units of psi and centigrade. To view in different units select the required ones here.
- EXPORT:** email a csv file of your data to yourself or anyone else.
- DELETE:** Clear the data and settings in the app.

### 6 OFFSET MODE

If offset mode is enabled on your RaceSense enter the same values here and you will be able to view the real pressures in the app. It will know when offset mode is enabled so if you turn it off on your RaceSense no need to zero the values here.

RaceSense is water resistant but should never be immersed in water or left in very wet conditions for any length of time. Never attempt to dismantle or service your RaceSense yourself as it will void the warranty.

RaceSense is rugged but always try to protect your RaceSense from shocks, hard and sharp objects, extremes of heat and prolonged exposure to direct sunlight.

If not in use, store your RaceSense in a clean, dry environment at room temperature.

Do not expose to strong chemicals and cleaning products as they may damage the seals, case and finish.

## RACESENSE POCKET TYRE GAUGE



**FASTMATERACING.COM**

If this product should fail due to defects in materials or workmanship, FastmateRacing will repair or replace it free of charge for a period of 12 months from the date of purchase. This warranty is only extended to the original purchaser and covers failures due to defects in materials or workmanship that occur during normal use. It does not cover damage or failures resulting from neglect, accident, misuse, mishandling, alteration or modifications of the product or any failure caused by the operation of the product outside the scope of its published specifications. FastmateRacing shall in no event be liable for any incidental or consequential damages arising from the use or inability to use the product. FastmateRacing do not assume any responsibility for losses or claims by third parties that may arise through the use of this product.

If a claim under warranty appears to be necessary email [hello@fastmateracing.com](mailto:hello@fastmateracing.com) (or telephone +44 (0)1784 481562) to obtain a returns number before returning your RaceSense.

This User Manual and its contents are intended solely for the use of our customers to obtain knowledge regarding the operation of the RaceSense tyre gauge. The contents shall not be disclosed or reproduced without the prior written consent of Swimovate Ltd. Great care has been taken to ensure the accuracy of this documentation but it's contents are subject to change at any time without notice. The latest version of this documentation can be downloaded from <https://fastmateracing.com>.

The CE mark is used to mark conformity with the European Union EMC Directive 2014/30/EU.



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## TO USE

### GAUGE MODE

Press ON briefly (does not save measurements in this mode)

Apply chuck to tyre and sample pressure, the gauge will beep when the pressure is stable. Adjust with bleed valve.

Time and Date → 14:14:34  
29/6/22  
Mode → 23°C  
4 P&T

Car number  
Temperature  
Battery

### MULTI-TYRE MODE

Press ON to change between gauge and multi-tyre modes  
**Saves pressures on all tyres without pressing any buttons**

#### IN SETUP

- Set starting tyre
- Set direction
- 2 or 4 tyre mode
- Turn on Multi-tyre mode

30.0 psi

RF	29.0
RR	31.3
LR	38.7
LF	30.0

Fit the chuck on first tyre valve, adjust pressure until correct, no need to press any button just move onto next tyre, adjust pressure and repeat.

If you need to redo a reading, press SELECT and it will jump back to the previous tyre

After all tyres have been measured the data will be saved automatically- Initial and adjusted pressures, time, date, ambient temperature and pressure.

**TEMPERATURES:** If a type K thermocouple probe is now attached you can measure Internal, middle and external temperatures of each tyre and these will be automatically recorded too.

**ACCURACY** +/- 0.1 psi (up to 60psi)  
+/- 0.25 psi (60-150 psi)

## SETTINGS

To **SETUP** -from Gauge mode hold **SELECT**  
(or press **SELECT** and **ON** together when powering up)

Number	→ 0	Display	Actual
Units	psi	Tyre RF	30.0
Temp	C d/m/y	Tyre RR	30.0
T Order	P and Ts	Tyre LR	30.0
Mode	Gauge	Tyre LF	30.0
Start	RF	Res	Normal
Dir	CW I-O	Memory	Clear
OLED	Medium	Factory	Reset
		Track T	User
		Labels	None

- ON changes value
- SELECT moves down the list

#### 1 NUMBER (set vehicle no. 0 to 255)

Press **SELECT** until select arrow is against Car no. Press **ON** and the Car no. will flash.  
**ON** will increase value, **SELECT** will decrease. Holding either button adjusts for larger steps.  
Once required value is achieved wait until it stops flashing.

#### 2 UNITS (psi, bar, kg/cm2 or kPA)

#### 3 TEMP (set temp units and date format)

#### 4 T ORDER (set measurement order)

**Ps and Ts**- will prompt for Pressure then Temperature measurements on each tyre  
**Ts first**- measure temps on all tyres before pressures  
**Ps first**- measure pressures on all tyres, then temps  
**Ts only**- measure temperatures on all tyres  
**Ps only**- measure pressures then ask for track t if Track T  
-> Ask selected.  
NOTE if no temperature probe is attached then RaceSense will just measure pressures.

#### 5 MODE (Gauge, 2 Tyres or 4 Tyres)

#### 6 START (RF, RR, LF, LR)

#### 7 DIR (sampling direction, CW or CCW)

#### 8 OLED (display brightness- low, medium, bright)

#### 9 DISPLAY (Actual or Offset)

In offset mode RaceSense will show any deviation from your desired pressures rather than absolute values.  
**No one can tell what pressures you are running.**

- Set display to Offset
  - Set tyres offset values
- Press **SELECT** until select arrow is against Tyre LR. Press **ON** and the LR offset value will flash.  
**ON** will increase value, **SELECT** will decrease.  
Holding either button adjusts for larger steps.  
Once required value is achieved wait until it stops flashing. Repeat for all other tyres.

#### 10 RES (Set pressure resolution- Normal or High)

#### 11 MEMORY CLEAR

RaceSense stores up to 64 sets of recordings, once the memory is full it automatically deletes the oldest logs so you always have the newest readings.  
Should you want to delete the entire memory- Press **SELECT** until select arrow is against Memory Clear. Press **ON** and you'll see confirmation screen.  
**Hold ON** to clear, press **SELECT** to cancel or wait a few seconds.

WARNING: This will delete all the current records permanently.

#### 12 FACTORY RESET

Press **SELECT** until select arrow is against Factory Reset. Press **ON** and you'll see confirmation screen.  
**Hold ON** to clear, press **SELECT** to cancel or wait.

#### 13 TRACK T

**Ask**- will prompt for ambient temperature then track temperature at end of temperature recordings. Click ON button to save each measurement.  
If no probe attached the ambient will be taken from the internal sensor.  
If skipped, 0 will be recorded.  
**User**- can interrupt temperature measuring at any time to add track temperature.

#### 14 LABELS

These are extra flags  
**Hot/Cold**- Prompts to mark record as a cold or hot run.  
**+TyreSet**- input tyre set number  
**+Liners**- mark as liners

## CHARGING AND CSV

RaceSense has a rechargeable battery. To charge, turn off then plug into a powered USB port for > 2 hours.  
Battery life > 3 months in standby or 24 hours continuous use.

**IMPORTANT: When the battery runs out you may need to set the time and date**

- 1, Plug the RaceSense into a PC
- 2, RaceSense will appear as a USB Drive
- 3, Open the ReadMe.txt file in notepad and save.

If RaceSense is plugged into a PC via USB it appears as a very small USB drive.  
You will find a couple of application files and a csv file of all your data that you can copy to another location on your PC.