

RACESENSE

TYRE GAUGE

Product Range



FASTMATERACING.COM
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ABOUT US

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Not all tyre gauges are the same.

Our RaceSense gauges have been designed with precision and longevity in mind. Never lose any data again as our gauges save readings and sync to your phone/computer so you always have tyre data at your finger tips.

Not all temperature probes are the same.

We have developed fast response, adjustable accurate temperature probes. Our probes are low thermal mass which won't act as a heat sink to skew your data and adjustable so you always insert them at the same depth for comparable readings.

How they came about.

When racing ourselves we realised accurate tyre gauges could be very expensive and didn't do a lot. We set out to change that. With experience in design, manufacture and software, we knew we could do better. With feedback from drivers, teams and tyre brands we've developed the RaceSense range you need.

We design our products in the UK and make many of them here too.

Widely used in high-end motorsport - Nascar, WRC, WTC, Le Mans 24, IMSA, Ferrari Challenge, Carrera Cup, Superbikes and many more series worldwide.

- Units of pressure: bar / psi / kPa / kg/cm2
- Unit of temperature: Deg C / Deg F
- Maximum pressure: 150 psi
- Pressure accuracy better than +/- 0.01 bar or 0.1 psi up to 60psi (over 60 psi accuracy better than 0.2 psi).
- Temperature accuracy: 1 deg C

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TYRE GAUGES

RACESENSE TYRE GAUGE

Perfect for teams with 7 different presets and PC setup tool the RaceSense is the choice for professionals.

Never forget your tyre pressures and temperatures again, don't scribble them on bits of paper or manually enter into spreadsheets,

Better than +/-0.1PSI accuracy

SMART

- PSI, bar, kPa, kg/cm2
- Fast mode: no buttons to press
- Choose start tyre and direction
- Bike or Car
- 3 temps per tyre + amb + track
- Add Car and Tyre set numbers
- Mark as Hot or Cold runs
- Offset mode for secret readings
- PC Setup tool

CNC machined aluminium - fast bleed valve - polycarbonate screen - water resistant - OLED - USB connection - rechargeable

Gauge **£275**
with Probe **£325**



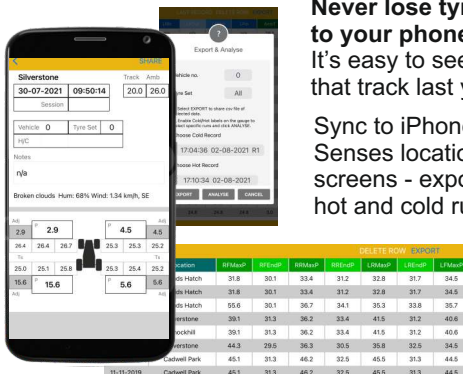
Carry case included
Protective cover £25

Never lose tyre pressures again, they are saved to your phone.

It's easy to see what pressures you were running at that track last year.

Sync to iPhone and Android (NFC required)

Senses location and weather - table and record screens - export to email/WhatsApp/SMS - analyse hot and cold runs - add car no, tyre set, notes etc.



OPTIONAL EXTRAS

- Temperature probe
- Protective cover

TYRE GAUGES

RACESENSE POCKET

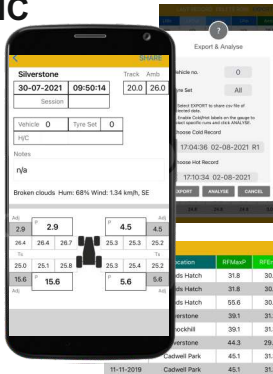
Precision pressure and temperature measuring with automatic logging and smartphone connectivity.

Our compact RaceSense Pocket saves your data and syncs to your phone so you always have your tyre data to hand. As the name suggests it fits neatly into your pocket too!

- Accuracy better than ± 0.1 psi
- Normal Gauge & fast Multi-Tyre modes
- Automatic 2 or 4 wheel modes
- Great for single vehicle



SYNC



Never lose tyre pressures again, they are saved to your phone.

It's easy to see what pressures you were running at that track last year.

Sync to iPhone and Android (NFC required)
Senses location and weather - table and record screens - export to email/WhatsApp/SMS - analyse hot and cold runs - add car no, tyre set, notes etc.

OPTIONAL EXTRAS

- Temperature probe
- Extender hose

DESIGNED FOR TRACK LIFE

- CNC machined aluminium
- Integral rubber cover
- Fast bleed valve
- Polycarbonate screen
- Water resistant
- Sunlight readable OLED
- USB connection
- Rechargeable battery

Gauge **£225**
with probe **£275**



carry case included

TEMPERATURE PROBES

QUICK RESPONSE

After insertion it typically takes 2 seconds for the probe to reach 90% of the final temperature and 4 seconds for the temperature response to level out.

The gauge shows Up or Down arrows if the temperature is changing. These will disappear when stable.

ADJUSTABLE DEPTH

There is a screw adjuster and locking nut so that the tyre can be probed at a consistent depth. It's important for the depth to be consistent as tyre temperatures will vary considerably with depth.

LOW THERMAL MASS

Some probes can act as a heat sink and actually affect the recorded temperatures. Our adjustable probe ends are made from a low thermal mass engineering material to avoid this

STRAIGHT

Our straight adjustable probes come in 2 cable lengths.

- Standard
- Long



RIGHT ANGLED

Our right angled adjustable accurate temperature probe (pyrometer) makes it easier to take temperature readings on closed wheel vehicles.

CNC Machined aluminium body.
Comes with hard carry case



Standard	£55
Long	£60
Right Angled	£85

(The standard length straight probe is bundled with the RaceSense gauge, if you prefer another option to be included with the gauge please order the gauge without the probe and then order the alternative probe as a separate item).

ACCESSORIES

RACESENSE TYRE GAUGE

PROTECTIVE RUBBER COVER

Fits around the gauge to protect from knocks.
Holds the straight temperature probe too

£25



REPLACEMENT HOSES with chucks

Standard

£20

Long

£25



LONG REACH EXTENDER £15

RIGHT ANGLED CHUCK £12

PRESTA VALVE CHUCK £15

RACESENSE POCKET

EXTENDER HOSE

£20

For hard to reach valves



CATERHAM

RACESENSE BOX

The RaceSense Box is an addon to a video loggers (e.g. VBox*) to measure your inputs to the car.

- Throttle position
- Deceleration due to braking
- Rotation rate (like a steering angle sensor)
- Brake pressures can be measured (needs brake option)
- RPM

for VBox Lite **£340**
for VBox HD2 **£370**

All of these signals can be overlaid on video and shown in graphs for analysis and comparison. E.g. you can see exactly how much throttle you apply and when and how quickly you move from throttle to brake. Or check if, when and where you are coasting etc etc.

RaceSense helps massively during training as you and your coach can see all the car inputs accurately and you can compare your data with reference laps driven by the coach. With RaceSense there is no more guesswork looking at foot cameras or listening to pick up of engine revs etc.

RaceSense also measures combined g-force, lateral g-force, air and coolant temperatures.

RaceSense works with all road and race Caterhams including Academy, Roadsport, 270R, 310R, 620R and 420R etc. We've also installed in Formula Ford and BMWs.

Options for VBoxLite or HD

SHIFTMATE

Shiftlights to help you determine when to change gear optimally. PC setup tool for easy programming.

Requires RaceSense V2 Box

ShiftMate works with Caterham Academy, Roadsport, 270R and 310R (contact us for other options)



Shiftmate **£145**

BRAKE PRESSURE SENSOR

Option for RaceSense Box

Brake **£175**

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PORSCHE

CENTRELOCK TOOL

Helps protect Porsche centrelock wheels from scratching and prevents ceramic rotors from chipping by guiding wheels during removal and refitting.

This design has a stainless steel thread just like the original Porsche tool but the body is mon-metallic, very smooth and slippery so the wheel slides off easily without damage.

It works on 996, 997, 991 and 992 designation cars including GT2, GT3 and RS models (also works with Lamborghini centrelocks). Once the centrelock is removed this tool simply screws into the hub and guides the wheel during removal and replacement.

The thread dimensions and profile match the original Porsche tool. Supplied with a 3D printed cap that protects the thread and stops the anti-seize compound from making a mess.



Centrelock **£145**

ACCIDENT INVESTIGATION

The RaceSenseCI Tyre Gauge has been designed for collision investigation and vehicle safety test applications.

Used by UK police for forensic road traffic collision investigation to ISO 17025 compliance requirements. It allows for the measurement of up to 16 tyres per vehicle and copes with missing tyres.

Accuracy better than ± 0.1 psi* - Calibrated to UKAS standards, ISO 17025 compliant
Sync to Android phone, tablet or computer - Water resistant and rugged - Protective rubber cover and hard carry case - HGV and presta valve adaptors

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