



Gauge Studio

App guide

Every section of the app explained one by one: status, gauge editor, profiles, sensors, alarms and settings.

FIND YOUR WAY

Sections and colours

How the app is organised and what each colour means.

CREATE

Gauge and profiles

Arrange, Edit, the six categories, library and profiles.

MEASURE

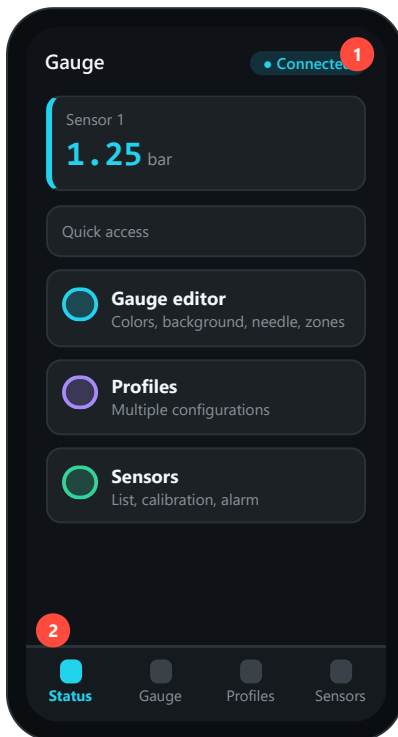
Sensors and settings

Sources, calibration, alarms, display, updates.

OVERVIEW

How the app is organised

Four sections at the bottom, one top bar that never changes. You can use the app without a gauge connected: prepare your dials and send them when you are in the car.



1 The top bar

The **connection indicator** shows whether the gauge is connected. Tap it to reconnect to the last paired gauge without leaving the screen you are on. Next to it you find **Disconnect** and the way into **Settings**.

2 The four sections

Status	Live values of every sensor, and shortcuts.
Gauge	The editor: screens, elements and the look of every dial.
Profiles	Complete saved configurations and the gauge library.
Sensors	Where each value comes from, calibration and alarm.

Switching section does not lose work in progress: each section stays as you left it.

What the colours mean

Cyan is the colour of actions and of whatever is active. **Red** is reserved for alarms and errors. The other colours only help you recognise groups of functions at a glance.

Style

Preset gauges

Scale

Unit, min/max, arc

Ticks

Size, colors, numbers

Needle

Shape, pin, glow

Content

Background, texts, logos

Alarm

Thresholds, flash, text

"NOT YET SENT TO THE GAUGE"

Almost everything you do in the editor stays on the phone until you tap **Send to gauge**. When you load, paste or import a dial the app reminds you with these words.

SECTION 1

Status

The starting screen: what the gauge is reading right now, and shortcuts to everything else.



Live values

One card for every configured sensor, each with its own colour. The value updates in real time; next to the name you see its state:

Live	The sensor is answering.
Not ready	The gauge is connected but the sensor gives no values yet (car off, unsupported PID, cable).
No data	Gauge not connected.
Alarm active	The value has crossed a threshold: the card turns red.

Quick access

Gauge editor	Colors, background, needle, zones.
Profiles	Multiple configurations.
Sensors	List, calibration, alarm.
Display	Rotation and brightness.
Boot splash	Image and fade-in on power-up.

If you are not connected

At the top you see the **Not connected** box · “Tap to search for the gauge”. Tapping it makes the app try to reconnect to the last paired gauge; if you do not have one yet, it takes you to add it with the QR code shown on the display.

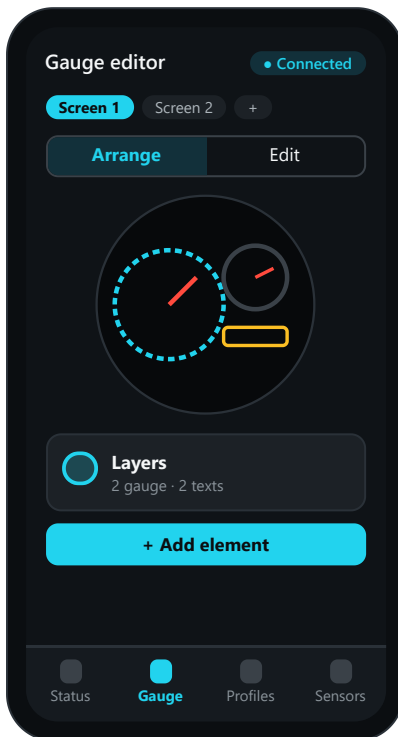
TIP

Want to see the effect of a value without driving? In **Sensors** every sensor has **Value simulation** : a slider that forces a value and shows you needle, zones and alarm on the real display.

SECTION 2 · PART ONE

Gauge: “Arrange”

The editor has two modes. In **Arrange** you work on the whole screen: which elements it holds, where they sit and how big they are.



Screens

At the top you choose the screen to work on. The gauge can have up to **6**, which you swipe through on the display. You can add, rename and delete them; each has its own **Screen background** (colour or image behind every element).

Add element

“What do you want to add?” Each type has its own colour:

Gauge Dial with needle and scale · up to 4

Text Label or live value · up to 8

Image Logo or picture · up to 4

Bar Bar that follows a sensor · up to 4

G-Force Acceleration view, takes the whole screen

G-Force can only be added to an empty screen and does not share it with other elements.

Moving and resizing

Tap an element to select it, drag it to move it and use the width and height sliders to resize it. Every dial and every text has its own **Connected sensor**: one screen can show different sensors.

Layers

The **Layers** panel lists every element. Tap a row to select an element even when another one covers it; the **Bring to front** and **Send to back** arrows decide which one is on top.

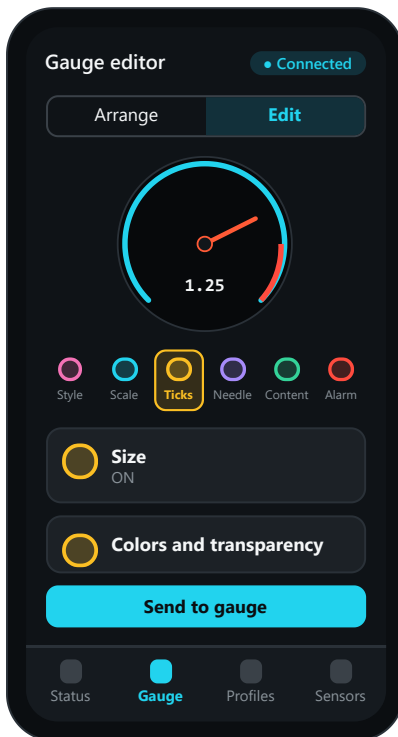
Save, load, share

COMMAND	WHAT IT DOES
Save to library / Load from library	Keeps a single dial so you can reuse it on other screens or profiles.
Export / Import screen (file)	Saves the whole screen to a file you can share, or loads one you received.
Download from gauge	Brings the screen currently on the gauge back into the app, with images and fonts.
Download all screens	The same, for every screen: handy on a new phone.

SECTION 2 · PART TWO

Gauge: “Edit”

With a dial selected, **Edit** opens its settings, grouped into six coloured categories. The preview at the top updates with every tweak.



1 Style

The **Preset gauges**: they apply only the look (background, ticks, needle). Scale, zones, texts and logos stay as you configured them.

2 Scale

Choose from sensor preset sets unit, Min, Max and ticks in one go (turbo pressure, temperature, oil, RPM, speed...). Then **Arc position** (start angle and width) and **Colored zones**.

3 Ticks

Size, Colors and transparency, Numbers on ticks, Multiplier (for example RPM ×1000) and value range.

4 Needle

Shape and position, colour, Center pin, Shadow, Glow and Movement (speed). You can also use an image as the needle.

5 Content

Background (colour or image), **Texts** (fixed text or live value, with your own fonts) and **Logos**, animated too.

6 Alarm

Thresholds, flash and text of the alarm of the sensor linked to this dial.

Collapsible sections

Inside each category the options are grouped into sections that open with a tap. Those labelled **ON** / **OFF** switch on and off without losing their settings; **Reset section** brings only that part back to its initial values.

Copying a design

From the dial's menu: **Copy (clipboard)** and **Paste (clipboard)** to duplicate it on another screen, **Export design (file)** and **Import design (file)** to exchange it, **Choose from profile** to take it from a saved profile.

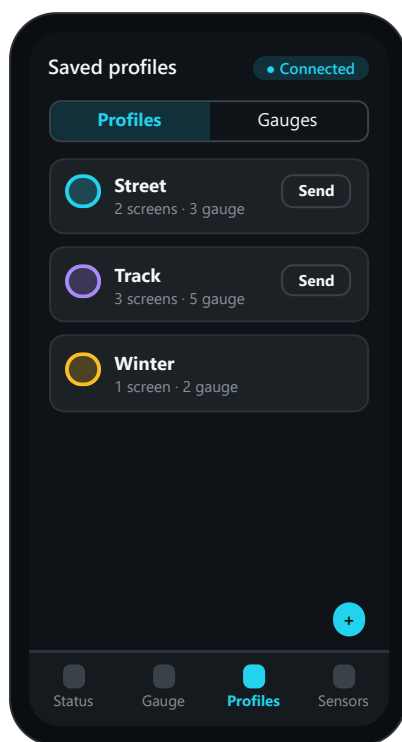
SEND TO GAUGE

The button sends the configuration of **all screens**, with images, backgrounds and fonts. A bar shows progress while sending: keep the phone close and wait for “Sent to the gauge”. So you do not lose your work, also save a profile with **Save profile**.

SECTION 3

Profiles

A profile is a complete configuration: every screen with its elements. Keep as many as you like (street, track, winter...) and switch in a few seconds.



“Profiles” tab

- 1 Save**
The **+** button saves what is in the editor now as a new profile. Give it a name: “Track”, “Street”, “GTI”...
- 2 Send**
Send on a profile's card sends it to the gauge complete with images and fonts.
- 3 Edit**
Tap a profile to open it in the editor; when you leave, the app asks whether to save the changes.
- 4 Rename and delete**
From the card's menu.

“Gauges” tab

This is the **library**: the single dials you saved with **Save to library** (from “Arrange”, “Layers” panel). Here you find them with their thumbnails; **Import from file** adds dials received from others.

Profile, screen, dial: what is saved where

WHAT	CONTAINS	WHERE IT IS SAVED AND SHARED
Dial	One instrument with its look	Library (“Gauges” tab), clipboard, “design” file
Screen	Every element of one display page	“Screen” file; can be downloaded back from the gauge
Profile	All screens	“Profiles” tab

SENSORS AND PROFILES

The sensor list and calibrations are **not** part of a profile: they belong to the gauge. Changing profile changes what you see, not what is measured; the profile does keep the alarm settings. To keep the sensors safe use

Sensor settings backup (page 7).

WARNING

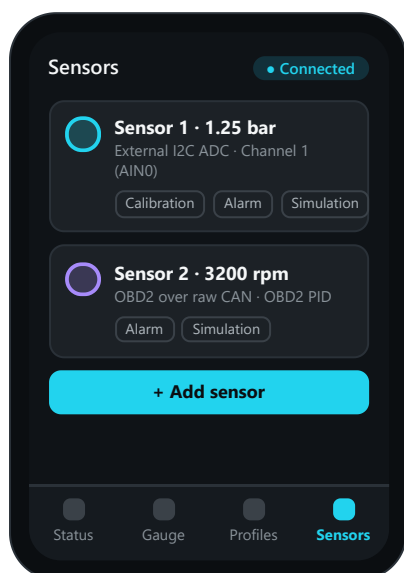
Sending a profile **replaces** the screens on the gauge. If you need the current ones, save them first:

Download all screens and then **Save profile**.

SECTION 4

Sensors

This is where you decide what the gauge measures. Every sensor has its own source, calibration and alarm; you can configure up to 16 in total.



Value source

OBD2 over raw CAN

Asks the engine control unit for the value through the OBD cable. Choose the **OBD2 PID**; **Detect PIDs supported by the car** shows the ones available.

External I2C ADC

A 5 V analog sensor wired to the connector. Choose the **ADS1115 channel** (1–4).

Custom CAN

For experts: reads a value straight from the car's network with a manual **CAN mapping**.

OBD2 (WiFi ELM327 dongle)

Reads the same PIDs through a WiFi adapter, with no cable.

Calibration

For analog sensors only. It takes **two real points**: bring the sensor to a condition whose value you know, tap **Point A** and enter it; repeat with **Point B** at a value far from the first. **Live voltage** confirms the sensor is responding. **Saved calibrations** keep a calibration for reuse.

Alarm

The alarm belongs to the sensor: it triggers on every dial that shows it. Open it from the sensor's card or from the **Alarm** category of the editor.

SECTION	WHAT YOU SET
Thresholds	Alarm active , Low threshold and High threshold .
Flash	Full-screen flash , colour, spread, blinking or solid, and blink period.
Alarm text	The text (for example "ALARM" or "STOP"), the warning triangle, colour, position and size.
Alarm sound	A .wav file played on the display's speaker, once or repeated.

SENSOR SETTINGS BACKUP

Recover from gauge reads sensor list, calibrations and alarms and keeps a copy on the phone; **Restore to gauge** puts them back; **Export (file)** saves them elsewhere. Do it after every successful calibration.

SETTINGS AND MAINTENANCE

Settings

From the top bar. Here you find your gauges, the language, the display and updates.

ENTRY	WHAT IT IS FOR
Language	Italian or English. It changes at once, without restarting the app.
My gauges	The list of paired gauges: connect, rename, remove. Add device pairs a new one by scanning the QR code on its display.
Display	Rotation of the content, to compensate for a tilted mounting (touch stays aligned), and Brightness . Brightness can also be set on the gauge by swiping vertically on the display.
Boot splash	The image shown at power-up, with its Fade duration . With no image the default animation (ring and needle) remains; it can also be turned off.
Stay on after engine off VERSION DEPENDENT	How many seconds the gauge stays on once the engine stops, or always on with Turn off now to switch it off by hand.
Engine diagnostics VERSION DEPENDENT	Scan reads the error codes stored by the car (OBD2), with description and Search on Google . Clear codes erases them: those caused by a fault still present come back.
Gauge group	Several gauges in one car: only one connected (master), the others show its data, over the air or by wire.

Updating the gauge firmware

- 1 Connect the gauge**
Engine running, phone nearby.
- 2 Check for updates**
In **Online updates**, after signing in with your account. If a new version exists the app shows its release notes.
- 3 Download and install**
The file is verified before sending. Alternatively **Choose .bin file** sends a firmware you have on the phone.
- 4 Wait for the restart**
Once the transfer is complete the gauge applies the update and restarts by itself.

DURING THE UPDATE

Do not disconnect and do not close the app. The firmware is only written if the transfer completes: if the connection drops halfway the previous one stays active and you can try again. Do not switch the engine off until the gauge has restarted.

Frequently asked questions

I changed the dial but the display does not change

Send to gauge is missing.

I changed phone

Pair the gauge again, then **Download all screens** and **Recover from gauge** for the sensors.