FuelMetric Pro User guide

Fuel-oil tank stock in metric tons, from your own tank charts and ASTM D1250-80 Tables 53B and 54B.

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fuelmetricpro.com · support@fuelmetricpro.com · A Sanaur Labs product

CHAPTER 1

Install and first start

Install the app, enter your company and site, and use the calculator.

Install

Windows 10 or 11: download the installer from the download page and open it. If Windows shows "Windows protected your PC", choose **More info**, then **Run anyway**. No administrator rights are needed.

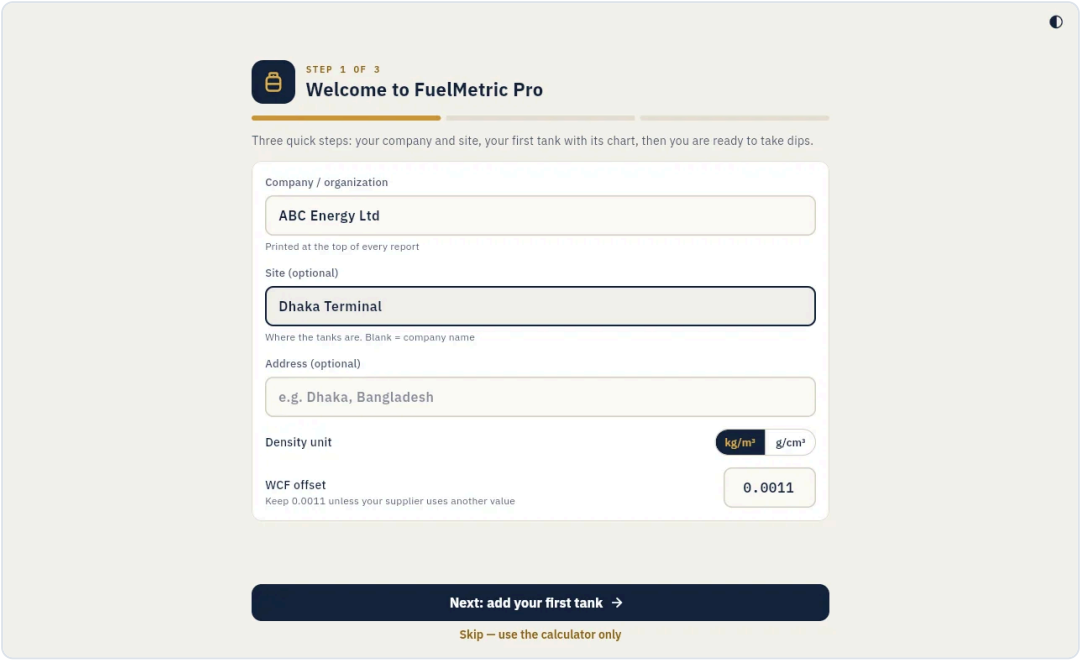
Android: the app is in testing on Google Play. Email support@fuelmetricpro.com with your Google account to join.

First start

The first start takes three steps: your company and site, your first tank with its chart, then the first dip.

1. **Company / organization** is printed at the top of every report.
2. **Site** is where the tanks are, for example a plant or depot. Leave it blank to use the company name.
3. **Address** is optional and is shown on reports.
4. **Density unit:** kg/m³ or g/cm³, as your laboratory reports it.
5. **WCF offset:** keep 0.0011 unless your supplier uses another value.

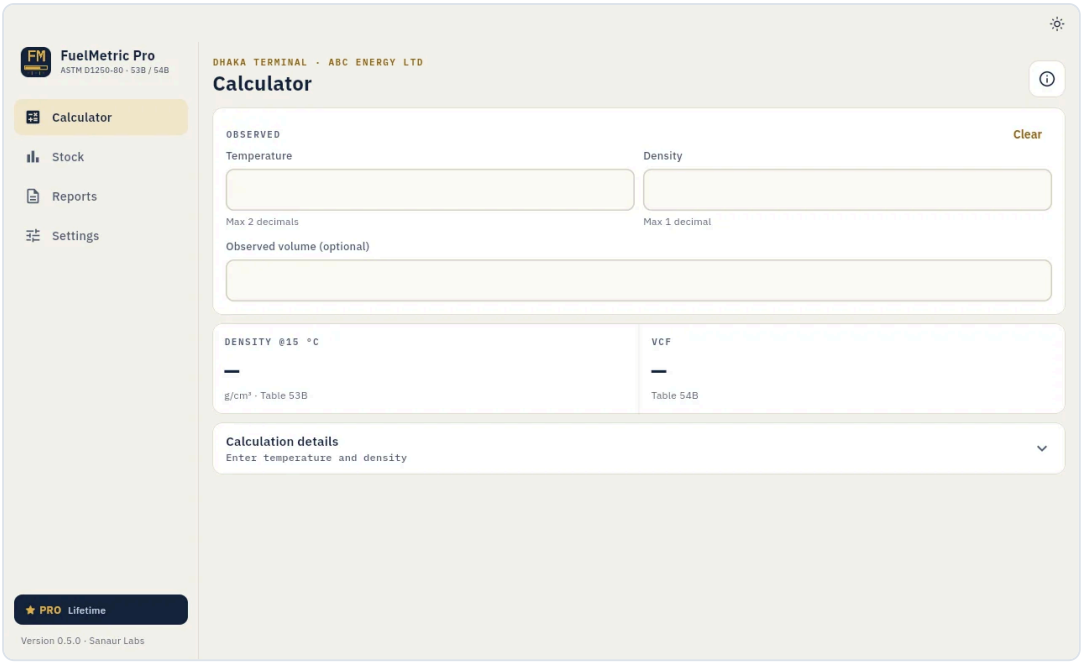
Choose **Next: add your first tank** and continue with Tanks and calibration charts. To look around first, choose **Skip, use the calculator only**; you can set up the site later in Settings.



Step 1 of 3: company and site.

Calculator

The **Calculator** page needs no tank. Enter the observed temperature and density to get the density at 15 °C (Table 53B) and the VCF (Table 54B). Add an observed volume to get the net volume at 15 °C and the quantity in metric tons. **Calculation details** shows the table row and column used.



The calculator is part of the free app.

CHAPTER 2

Tanks and calibration charts

Add a tank, import its calibration chart and check it.

Each tank uses its own calibration chart. The free app keeps one tank; Pro has no limit.

Add a tank

Open **Settings › Tanks & charts › Add**, or continue from the first start.

1. **Tank name**, for example HFO Tank 01.
2. **Capacity** in MT.
3. **Dead stock** in MT: the oil below the suction level that cannot be pumped. Usable stock = Total stock − Dead stock.

Calibration chart

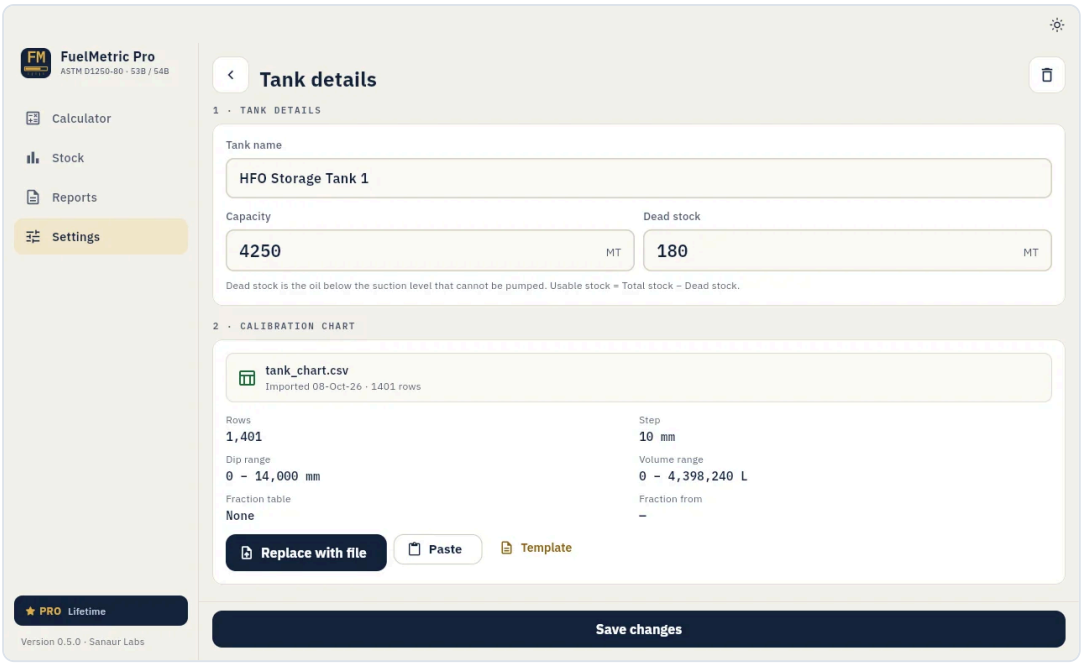
The chart is a CSV file with the dip in millimetres and the volume in litres. A fraction table (1 to 9 mm) is optional; it is used from the threshold dip upwards where the chart step is 10 mm. In Excel, save the sheet with **File › Save As › CSV**.

```
Tank name,HFO Tank 01
Fraction threshold dip (mm),100
Dip (mm),Volume (L)
0,0
10,1890
20,3790
30,5690
Fraction (mm),Volume (L)
1,189
2,378
...
9,1701
```

Choose **Choose CSV file**, or copy the rows and choose **Paste**. **Template** shows this layout and copies it for you.

Check the chart

The app reads the chart and shows the number of rows, the step, the dip and volume range and whether a fraction table is present. Use the **spot check**: enter a dip from your printed chart and compare the volume. Then tick **I have checked this chart against the calibration certificate** and choose **Confirm & save tank**.



A saved tank with a 1,401-row chart.

Change or delete a tank

Open the tank from **Settings › Tanks & charts**. **Replace with file** loads a new chart. The bin icon deletes the tank, its chart and its readings.

Volumes come from the chart rows, the fraction table where present, otherwise straight-line interpolation between rows. A dip outside the chart is refused.

CHAPTER 3

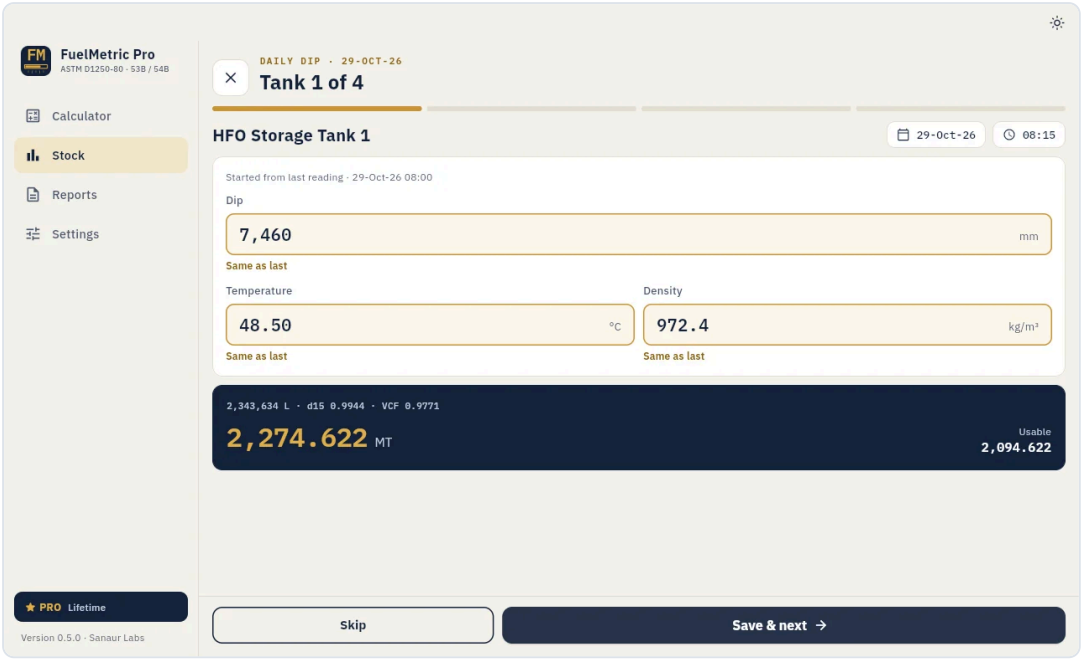
Daily dip round

Enter the dips of all tanks in one pass and correct a reading later.

Take the dips

On the **Stock** page choose **New dip**. The round goes through every tank (Tank 1 of 4, 2 of 4 and so on).

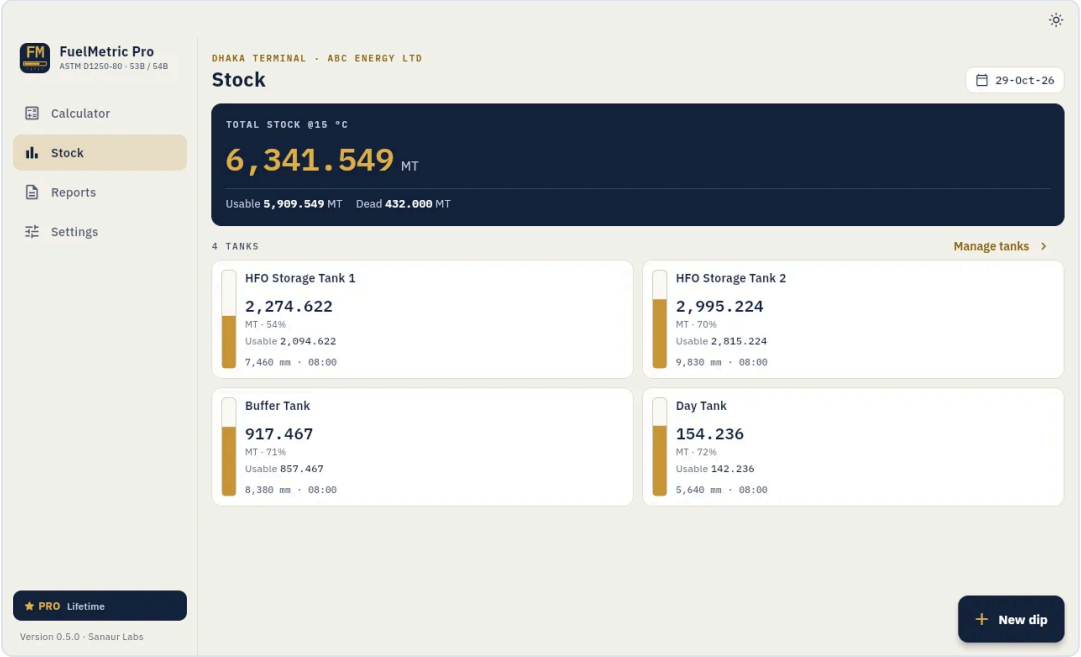
1. Check the date and time at the top. On a PC the time can be typed (24-hour).
2. Each tank starts from its last reading. Under each field the app shows **Same as last** or **Changed**, so you only change what has changed.
3. Enter the **Dip** (mm), the **Temperature** (°C, read to 0.25 °C) and the observed **Density**.
4. The result shows the observed volume, density at 15 °C, VCF and the stock in MT, with the usable stock.
5. Choose **Save & next**, or **Skip** for a tank you did not dip. The last tank has **Save & finish**.



The dip round starts from the last reading of each tank.

Stock

The **Stock** page shows the total at 15 °C, the usable and dead stock, and each tank with its level and last dip. A tank without a dip on a day keeps its last reading (carried forward).

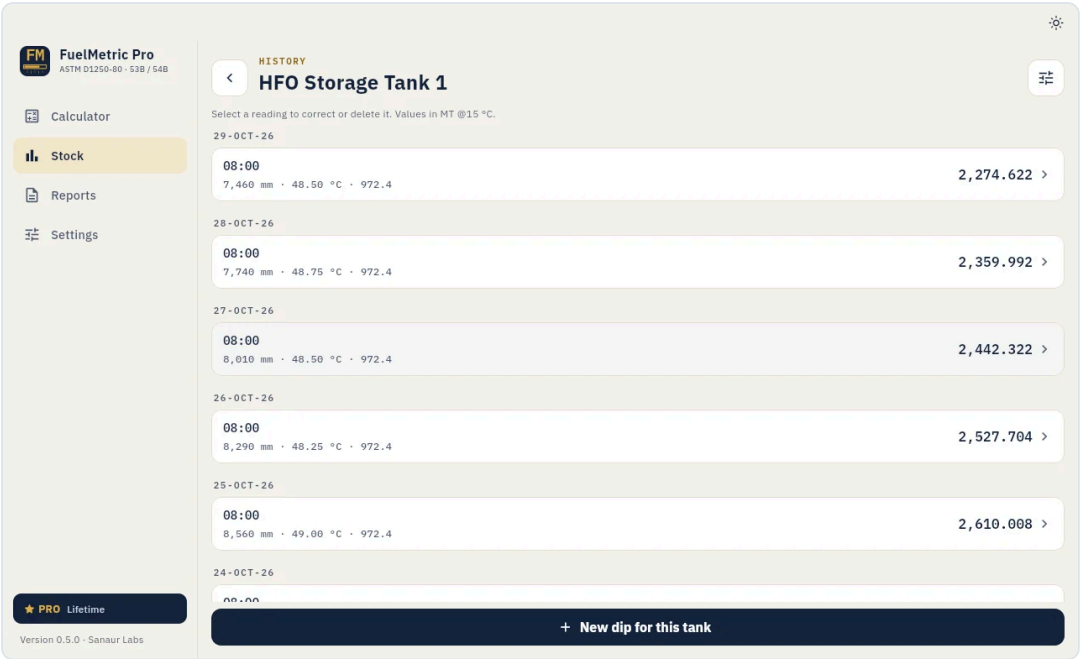


Stock of the site after the round.

Correct or delete a reading (Pro)

On the **Stock** page, select a tank to open its **History**. Select a reading, change the values and add a reason if you like, then choose **Save changes**. The reading shows "Edited", and the stock and the Daily Stock Report for that day are updated. If you delete a reading, that day uses the previous reading.

New dip for this tank, at the foot of the history, records one tank outside the round.



History of one tank; select a reading to correct it.

CHAPTER 4

Receipts and transfers

Record oil received into a tank or sent out, with the quantity from both dips.

Receipts and transfers are part of Pro. Open **Reports** and choose **New** under Receipts & transfers.

Receipt or transfer

- **Receipt (in):** oil comes into the tank and the stock rises. Quantity = After − Before.
- **Transfer (out):** oil goes out of the tank and the stock falls. Quantity = Before − After.

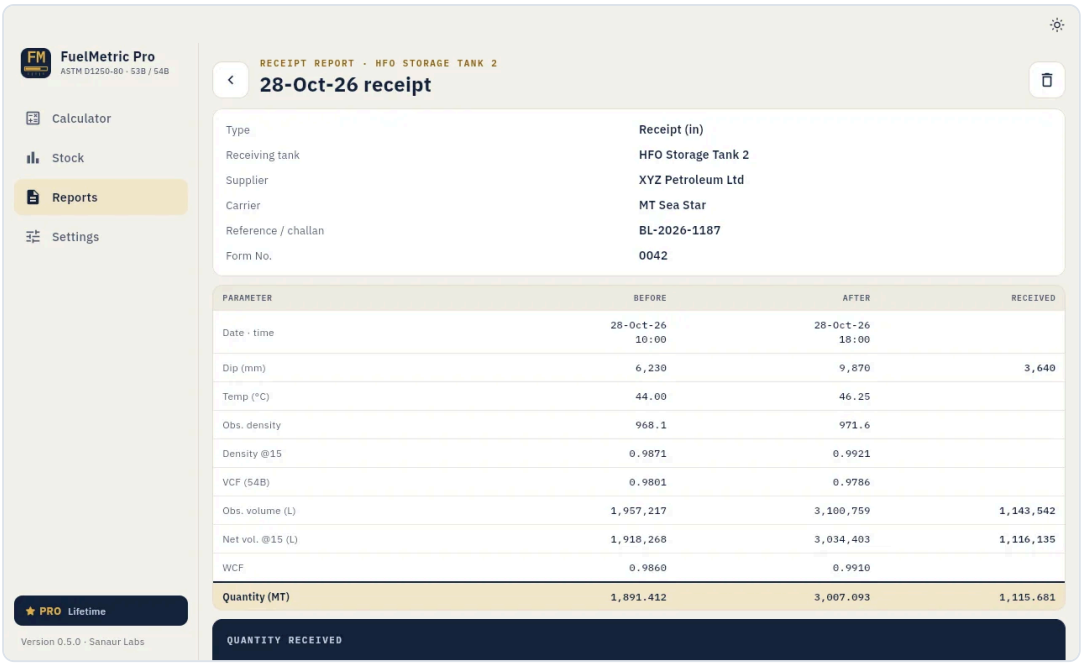
Enter the details

1. Choose the receiving (or issuing) tank and enter the supplier (or receiver).
2. Carrier (barge, vessel, lorry), reference or challan and Form No. are for the report; the carrier and Form No. are optional.
3. **Before:** the dip starts from the tank's last reading. Check it, or enter the dip taken before the operation.
4. **After:** for a receipt, the dip after the oil has settled; for a transfer, the dip after the transfer is complete.
5. Enter the quantity on the supplier documents (or stated by the receiver) to see the difference on the report.
6. Choose **Save receipt** (or **Save transfer**).

If the After stock does not rise for a receipt, or fall for a transfer, the app says so and offers to change the type.

Receipt report

Open a saved receipt to see every value Before and After: dip, temperature, densities, VCF, volumes, WCF and the quantity in MT. **Save PDF** and **Save Excel** create the report (on Android, **Share**).



Receipt with the full calculation.

The report title ("Receipt report" by default) can be changed in **Settings › Reports**.

CHAPTER 5

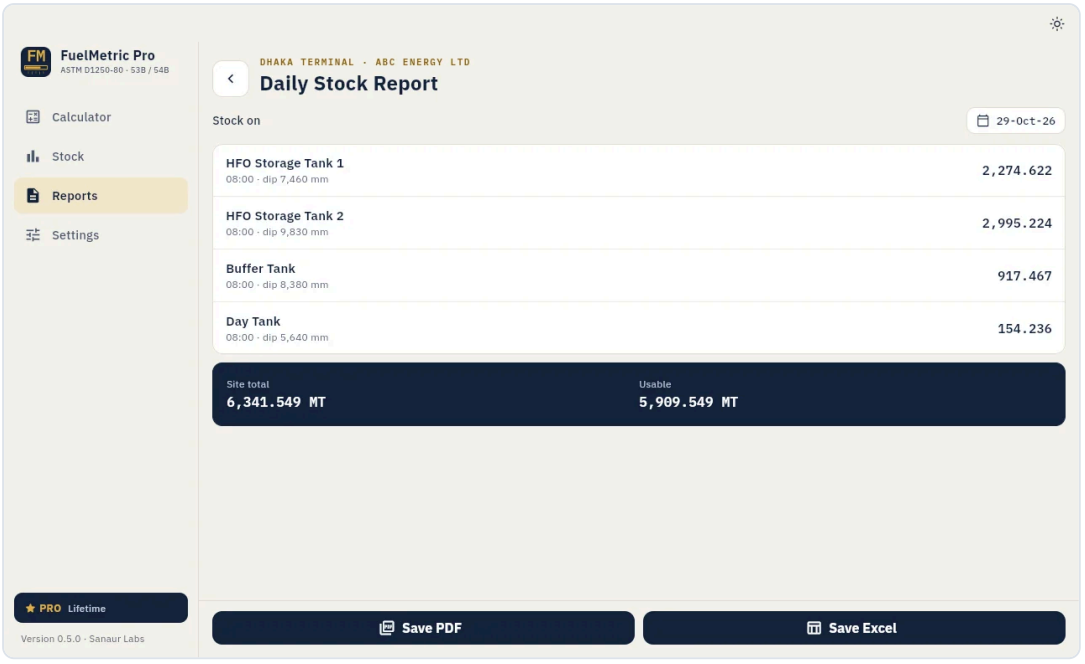
Reports

Save the Daily Stock Report and receipt reports as PDF and Excel.

Reports are part of Pro. Each report shows the company, site and address from Settings, and signature boxes for Prepared, Checked and Approved.

Daily Stock Report

1. Open **Reports › Daily Stock Report**.
2. Choose the date next to **Stock on**. Each tank shows its reading on that day, or the last one before it (carried forward).
3. Choose **Save PDF** or **Save Excel** and pick the folder. On Android the buttons are **Share PDF** and **Share Excel**.



Daily Stock Report: all tanks on one date.

The PDF lists, per tank, the time, dip, temperature, observed density, density at 15 °C, VCF, observed and net volume, WCF, total, dead stock and usable stock, with the site total.

Receipt reports are made from each receipt; see Receipts and transfers.

CHAPTER 6

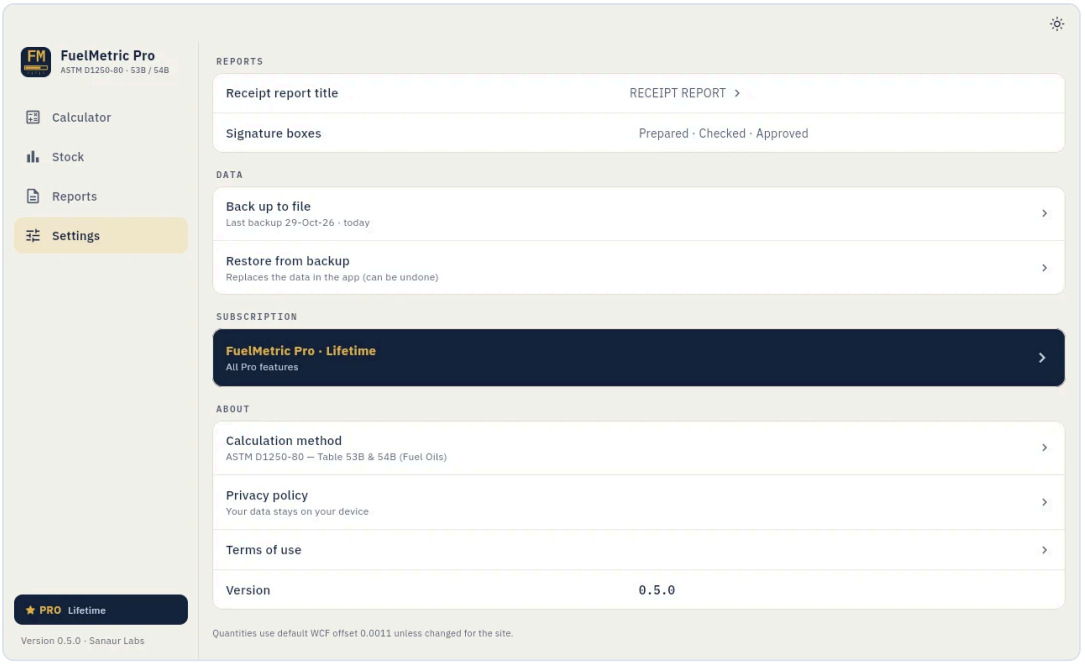
Backup and moving to a new PC

Keep a backup file and move your data to another PC or phone.

Your data stays on your PC or phone; nothing is stored on our servers. A backup file is the way to keep it safe and to move it.

Back up

Open **Settings › Data › Back up to file**. The app saves a file named like `FuelMetric_Backup_29-Oct-26.fmbak`. Keep a copy away from the PC, for example in Google Drive or email. Settings shows the date of the last backup and reminds you when it is more than 7 days old.



Settings › Data.

Restore

Choose **Restore from backup** and select the file. The app shows what the backup holds (date, company, site, tanks, readings, receipts) before anything changes. Restoring replaces the data in the app. **Undo last restore** takes the app back to the data from before the restore, once.

Move to a new PC

1. On the old PC, make a backup file.
2. If you have Pro, open **Upgrade** (or **Your plan**) and choose **Deactivate on this PC**.
3. Install FuelMetric Pro on the new PC, restore the backup and enter your licence key.

On Windows the data is kept in `%APPDATA%\Sanaur Labs\FuelMetric Pro`; uninstalling the app does not delete it.

CHAPTER 7

Pro and your licence key

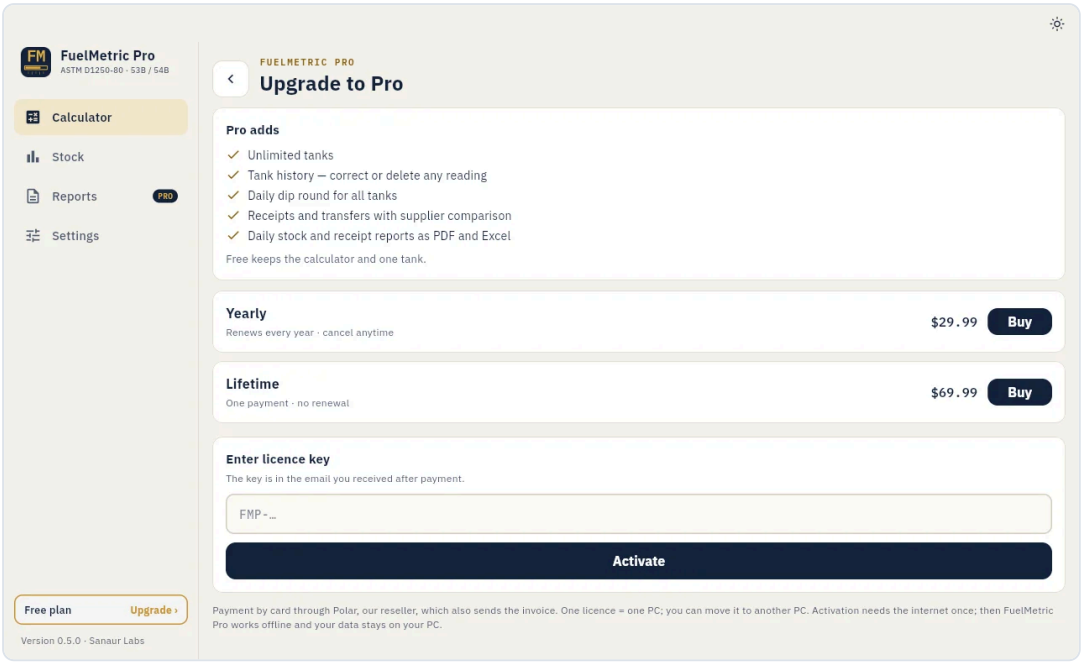
What Pro adds, how to buy it and how the licence key works.

Free and Pro

The free app keeps the calculator and one tank with its chart and dips. Pro adds unlimited tanks, the daily dip round for all tanks, tank history with corrections, receipts and transfers, and the PDF and Excel reports.

Windows

1. Choose **Upgrade** at the foot of the sidebar, then **Buy** for Yearly or Lifetime. You can also buy on the pricing page.
2. Pay on the checkout page. The licence key arrives by email.
3. In the app, enter the key under **Enter licence key** and choose **Activate**. Activation needs the internet once; after that FuelMetric Pro works offline.



Upgrade on Windows.

One licence works on one PC at a time. To move it, choose **Deactivate on this PC** on the old PC, or use the customer portal, then activate the key on the new PC. The customer portal also has your invoices and lets you cancel a Yearly licence.

When the PC is online, the app confirms the key about once a month. A Yearly key keeps working offline for a year after the last check.

Android

Pro on Android is bought in the app through Google Play (Monthly, Yearly or Lifetime) and is linked to your Google account. On a new phone, choose **Restore purchases**. Monthly and Yearly plans are managed in Google Play; the app's **Manage subscription** button opens the right page.

CHAPTER 8

Problems and answers

What to do when something does not work as expected.

Windows says "Windows protected your PC"

Windows shows this for new apps from small publishers. Choose **More info**, then **Run anyway**. The download page lists the file's SHA-256 checksum if you want to confirm the file.

The dip is refused

The dip is outside the tank's calibration chart. Check the dip and the tank, then check that the chart covers the full height of the tank.

A warning about the temperature

The tables use temperature rows every 0.25 °C and the app uses the nearest row. Read the thermometer to 0.25 °C to avoid the warning.

"This key is already active on another PC"

One licence works on one PC at a time. Deactivate it on the old PC, or in the customer portal, then activate it again.

"Your licence needs an online check"

Connect the PC to the internet, open **Upgrade** and choose **Check now**.

I bought Pro on Android but it is not active

1. Wait a few minutes; Google Play can take a little time to confirm a purchase or a redeemed code.
2. Open the app again with the internet on, then choose **Settings › Subscription › Restore purchases**.
3. Make sure the Play Store uses the same Google account you bought with.
4. Check the order in Play Store › Payments & subscriptions › Budget & history.
5. Still not active? Email support@fuelmetricpro.com with the order number (it starts with GPA.).

I lost my data

Restore your latest backup file from **Settings › Data › Restore from backup**. See Backup and moving to a new PC.

Something else

Email support@fuelmetricpro.com. A screenshot and the app version (Settings › About) help.