Test Methods

Novacab MDT

Version History:

Version	Date	Author	Changes
1.0	25-02-2026	Bob van de Wiel	Initial Version

Content

1 Introduction

This document provides guidance for inspecting the internal taximeter clock and inspecting/adjusting the K-factor.

2 Inspection number

During activation or examination, it is possible to enter an inspection number.
This number must be entered when the workshop installs the MDT or makes changes to it.
The inspection number must be the same as the number used on the SWEDAC control report.

The number can be set as follows:

1. Make sure the device is in either **Activation** or **Examination** mode.
2. Navigate to the **Inspection Number** field.
3. Press the **pencil icon** at the bottom of the screen (see Figure 2-1).

After pressing the pencil icon, a numeric keypad will be displayed (see Figure 2-2).
Enter the same number as shown on the SWEDAC control report.

When finished:

1. Press the **checkmark icon** to confirm the number.
2. Complete the activation or examination process.

The control report number will now be printed on the taximeter control receipt.

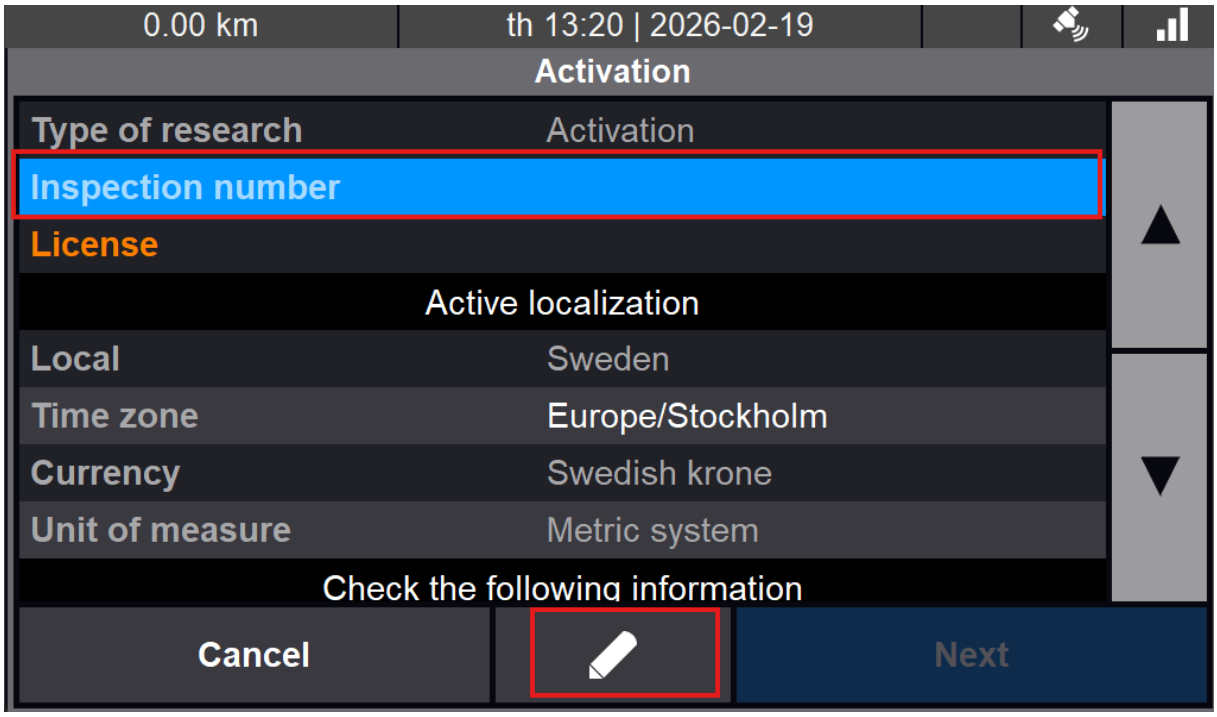

Figure 2-1: Inspection number during activation.

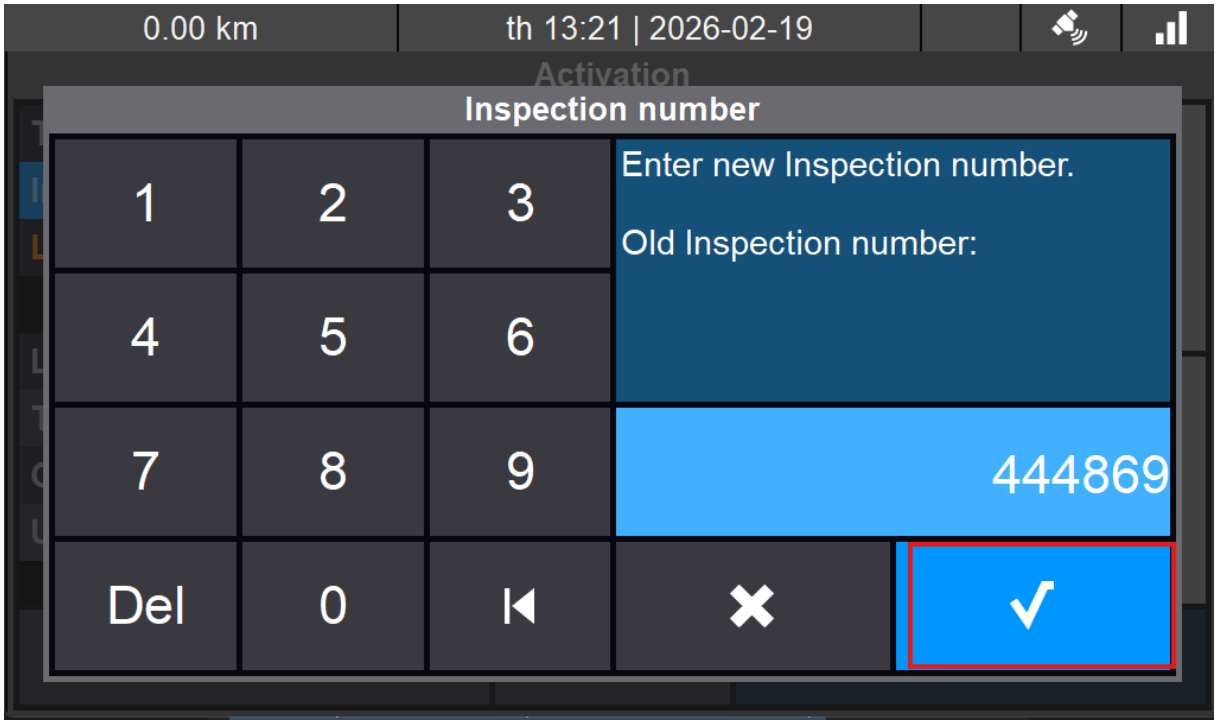

Figure 2-2: Inspection numpad entry

3 Validation

Both the K-factor and the taximeter time can be validated and their performance and offset reported by the Cabman MDT.

3.1 K-factor

To validate the K-factor, make sure the user is logged in as a workshop and

1. Open the warnings menu (Figure 3-1).
2. Open the pulse measurement menu marked by the icon  . This will open the menu shown in Figure 4-4.
3. Drive a kilometre and print the report with the print button. Note that this will print the report twice for bookkeeping.
4. Open the workshop tab (Figure 3-3) and open the examination menu
5. Set the new K-factor. For a detailed guide on setting the K-factor see Chapter 4.
6. Reboot the MDT. (this happens automatically if the user logs out)
7. Repeat steps 1 and 2 to print the new pulse measurement report.
8. Validate the results.

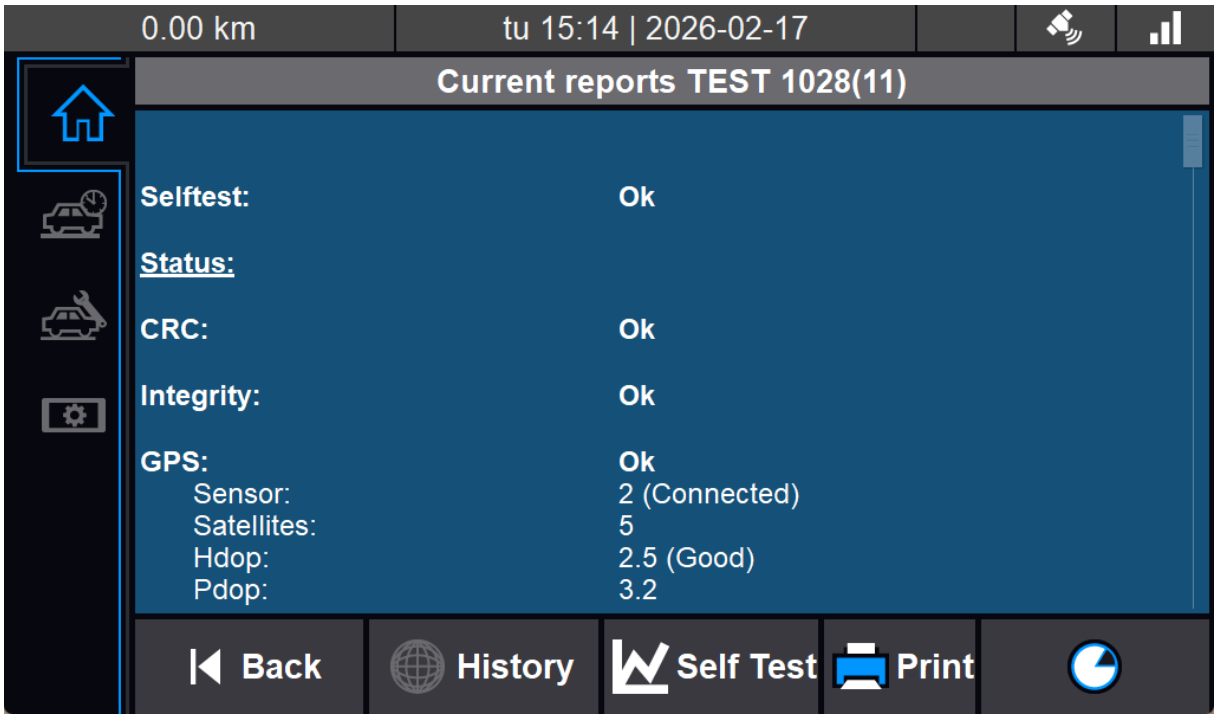

Figure 3-1: Warnings menu

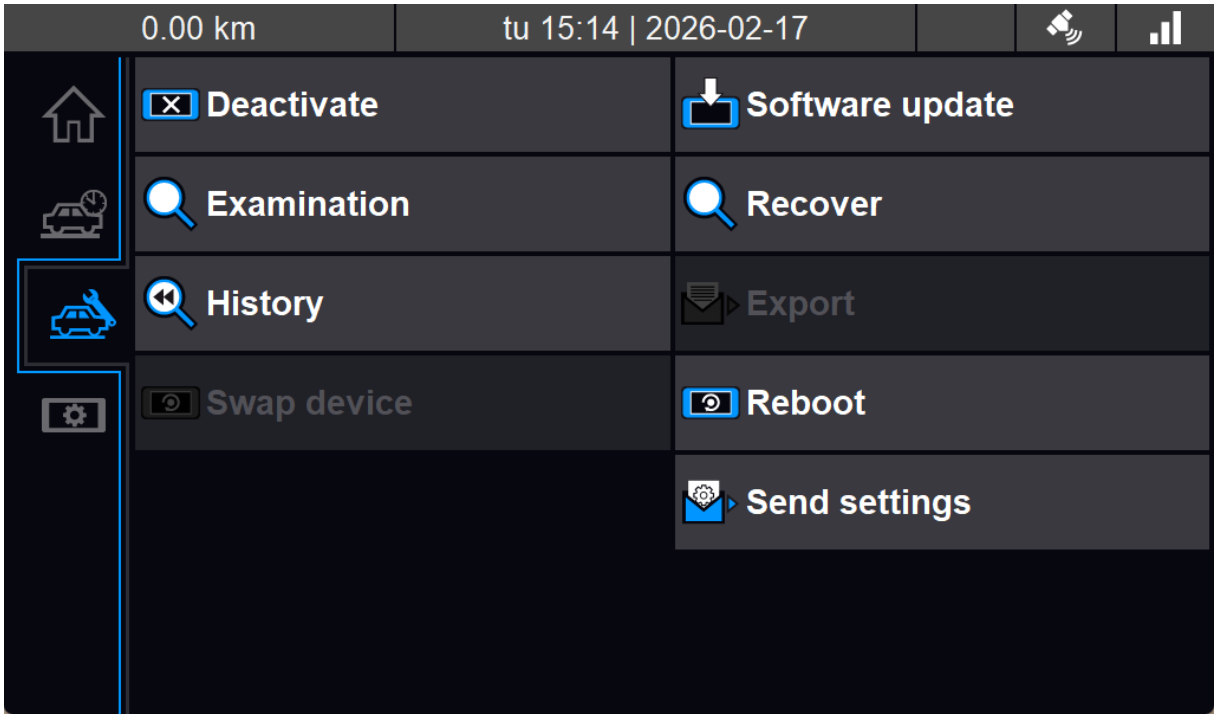

Figure 3-2: Workshop tab

3.2 Taximeter clock

To validate the taximeter clock is running correctly a time validation can be performed. This test makes use of an external clock (i.e. a stopwatch). Ensure this external clock is calibrated. Then perform the following steps:

1. Login as a workshop user.
2. Open the taximeter tab (Figure 3-3).
3. Start a trip from the list. (doesn't matter which) and start the external clock at the same time.
4. Wait for the calibration time to finish (usually 30 minutes).
5. Stop the external clock and pause the trip at the same time.
6. Calculate the difference between the time on the taximeter and the time on the external clock.
7. If the difference between these values is within specification the clock is validated.

8. The paused trip can be stopped and released. It is possible to print the receipt for bookkeeping.

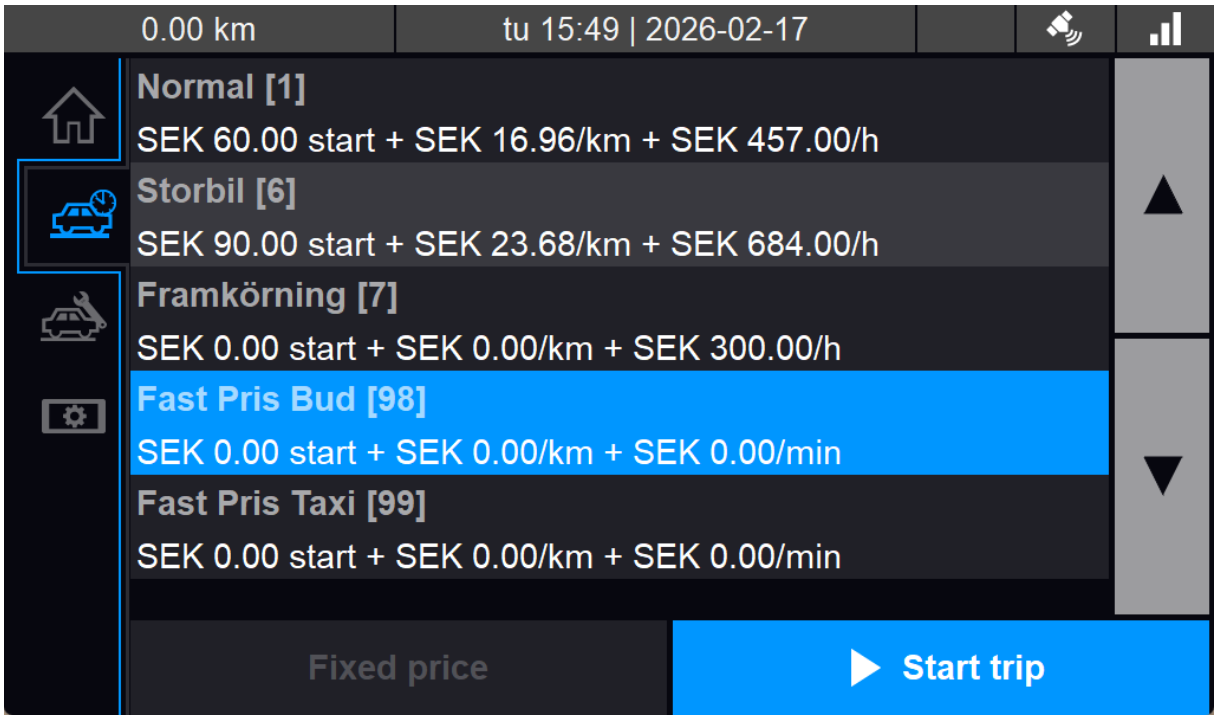

Figure 3-3: Taximeter tab

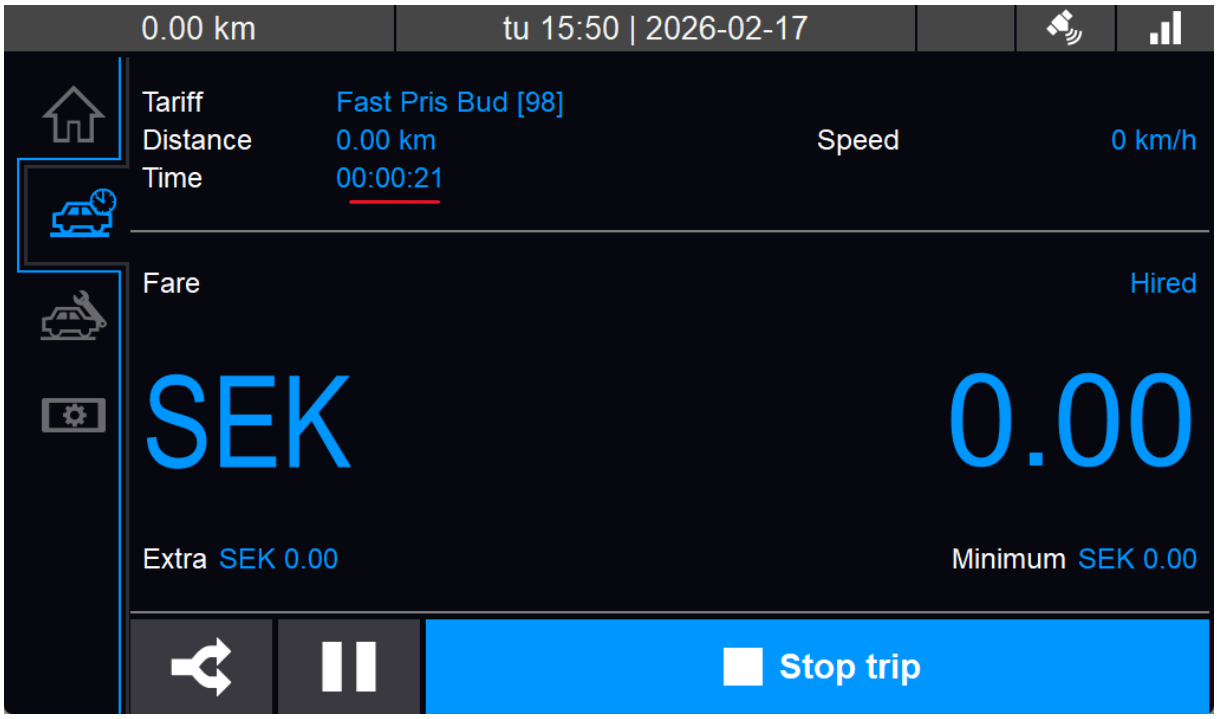

Figure 3-4: Taximeter tab with an active trip. Note the time in the top left corner

4 Setting new K-Factor

4.1 Go to examination

When the K-Factor differs to much the workshop can choose to set a new K-Factor under the examination screen (see figure 4-1).

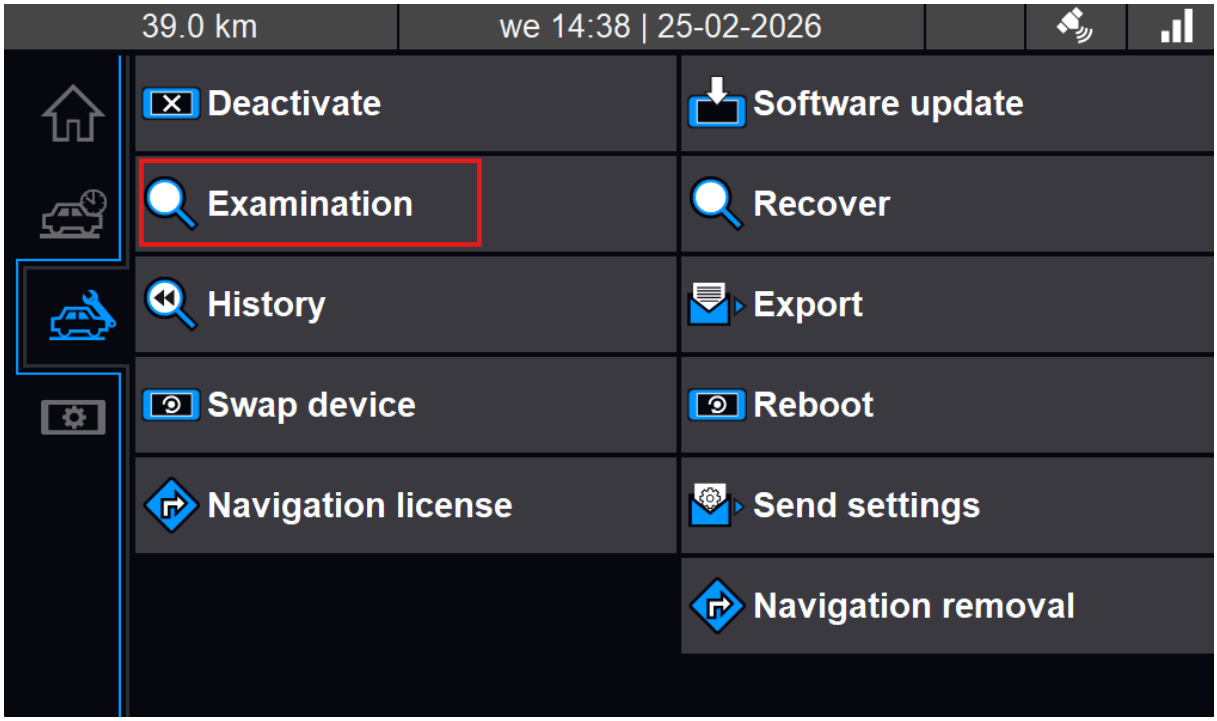

Figure 4-1: Open Examination

Now scroll down to the K-Factor field and click on the pencil icon (see figure 4-2). This will open a new dialog box where it is possible to set the new K-Factor (see figure 4-3).

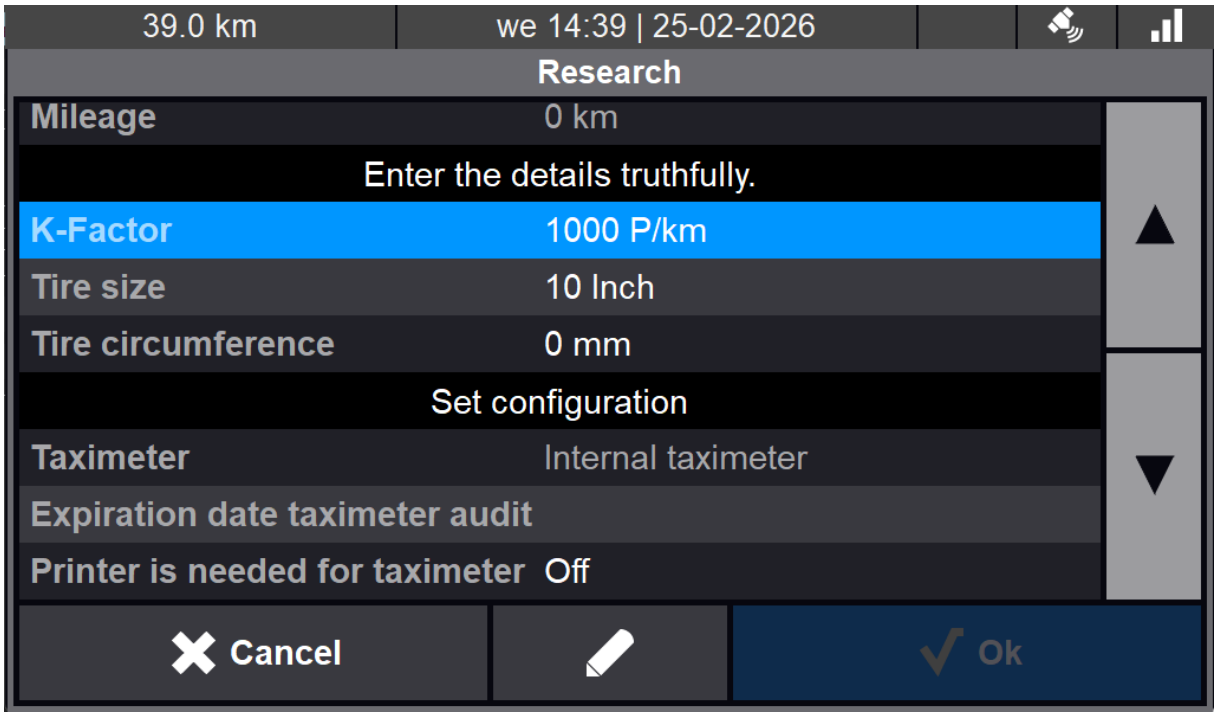

Figure 4-2: Open K-Factor Dialog

4.2 Check the K-Factor

Calibrating the Cabman MDT means finding and registering the pulses received per kilometer in the form of the K-factor. The K-factor is measured while driving.

A distance of 1 kilometer is used, and the K-factor is found by pressing the 'Perform measurement' button at the K-factor setup screen, see figure 4-3

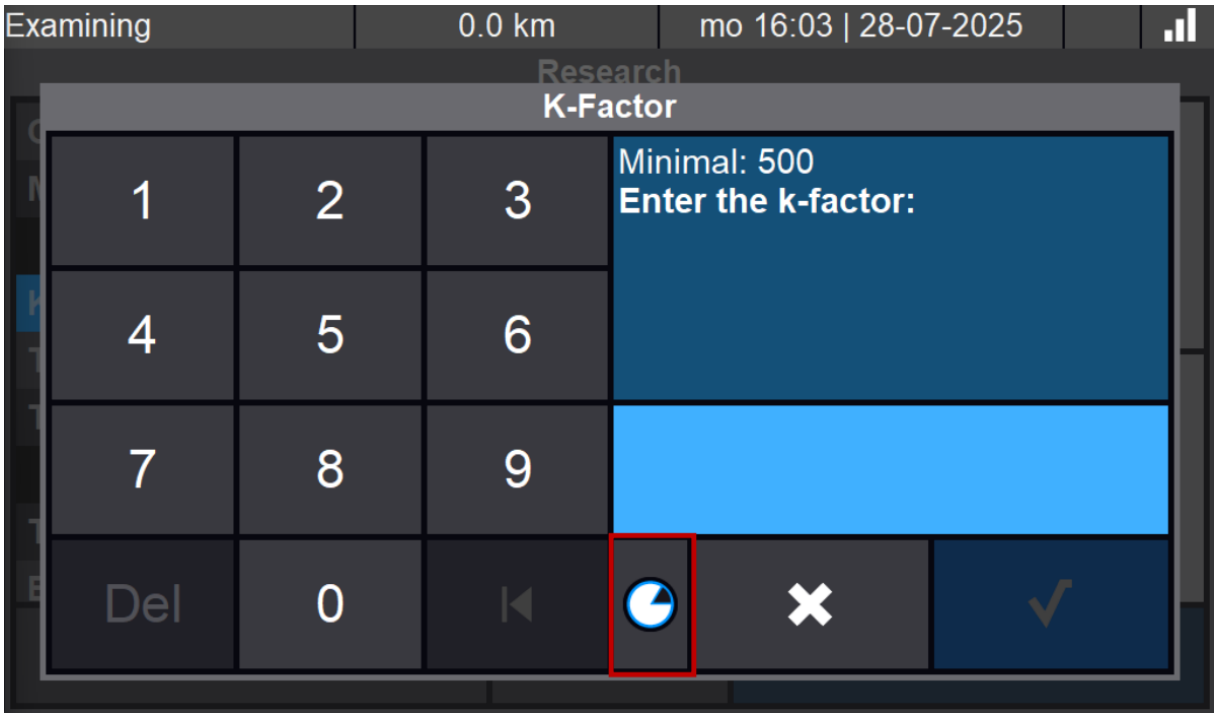

Figure 4-3: Start measuring the K-factor

The K-factor measurement starts immediately. See figure 4-4. It is possible to start new measurements by pressing the “Perform measurement” button. . A report can also be printed by pressing the print button. Press the “OK” button to stop measurements.

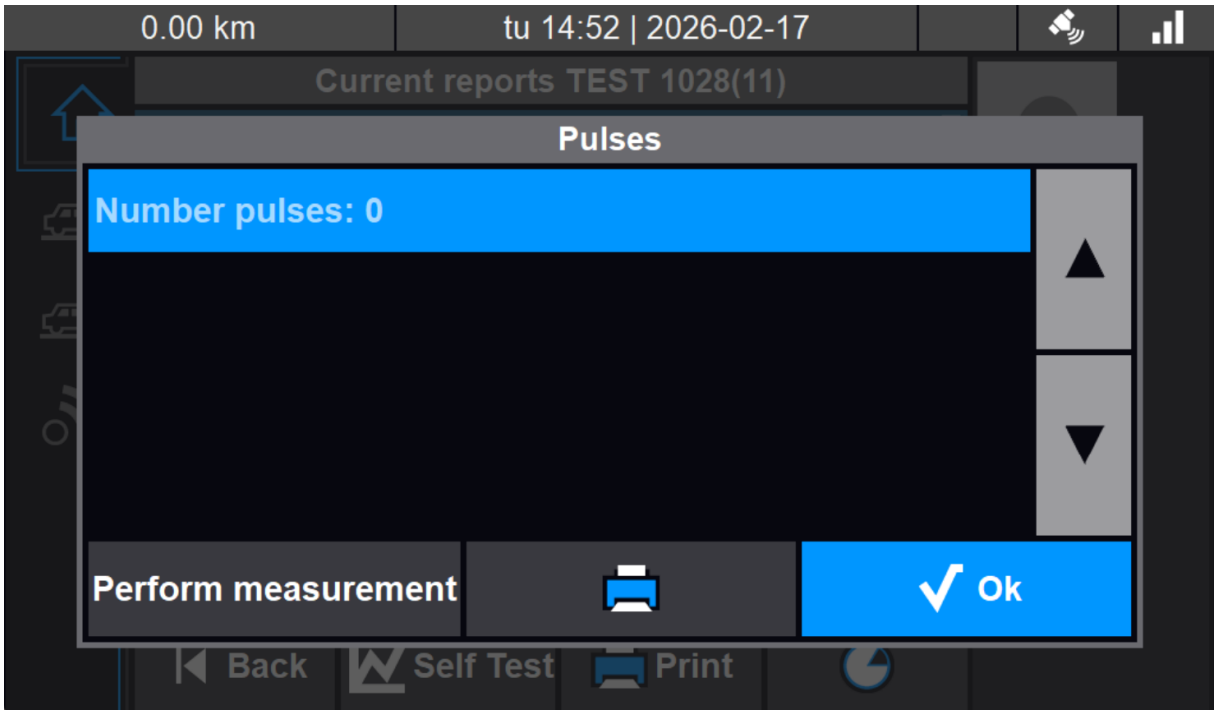

Figure 4-4: Measuring the K-factor

This gives a return to the screen shown in figure 4-3. Enter the number of pulses that correspond to one actual kilometre, and press the “V” button. The K-factor may differ by a maximum of 3% (30 meters per kilometre).

In order to store this new value make sure to finish the examination.