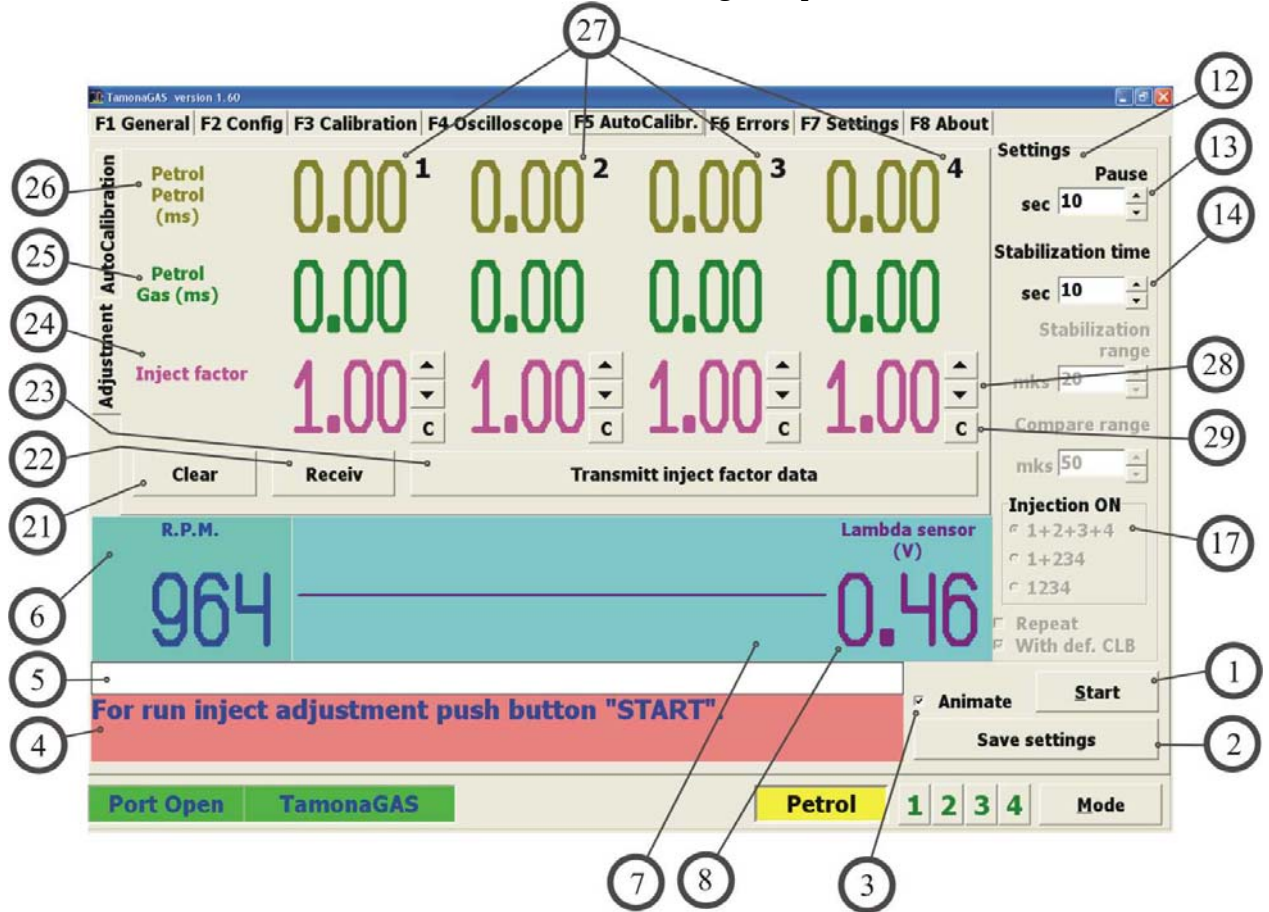


F5. Autocalibration. Gas nozzles positioning (fine adjusting).

Overview

Bookmark „Positioning“ is open



Control buttons

1. Start/Stop positioning (Start/Stop – “S”).
2. Save settings of positioning algorithm script.

21. Gas nozzles factor reset.
22. Receipt of gas nozzles factors data from ProGAS system.
23. Transmitting gas nozzles factors data to ProGAS system .

3. “Animation” option.
4. Prompt line for operator.
5. Visualization line.
6. Round per minute.
7. Lambda sensor signal oscillogram.
8. Lambda sensor voltage (V).

12. Block of adjusting positioning algorithm.

13. Stabilization time (sec.) of engine performance, pause.
14. Stabilization time (sec.) of data of petrol nozzles impulses duration.

Control and indication of separate nozzle.

24. Gas nozzle factor.
25. Value of impulse duration of petrol nozzle in „Gas“ mode .
26. Value of impulse duration of petrol nozzle in „Petrol“ mode.
27. Nozzle number.
28. Manual adjusting of gas nozzle factor.
29. Gas nozzle factor reset.

F5. Gas nozzles positioning (fine adjusting). Detailed description

Bookmark „Positioning“ is open

Positining must be done only after autocalibration

Control buttons

- „Start/Stop” – “S” (F 5.1)

Starts/stops positioning

- „Save settings“ (F5.2)

Saves setting data F 5.12 , F 5.3 in file „TamonaGAS.ini“.

- „Reset“ (F 5.21). Full reset of adjusting factors of all gas nozzles.
- „Receipt“ (F 5.22). Receipt of data of gas nozzles factors from ProGAS system.
- „Transmitting gas nozzles factors “ Transmitting data to ProGAS system.

Positioning sequence.

Positioning must be done only after autocalibration. Open bookmark „Positioning“ (F5.9). The sequence of nozzles switching “Nozzles” (F5.17) switches to “1 + 2 + 3 + 4” automatically.

1. Make adjusting script (algorithm) of positioning (F5.12).
2. Push the button “Start” (F5.1). The procedure could be stopped by releasing button “Start” .
3. ProGAS system goes to automatic mode and switches onto petrol.
4. Adjusting factors of gas nozzles (F5.24) are reset.
5. Influence factors (F11.7, F11.9, F11.11, F11.13) are reset.
6. ProGAS systems goes to petrol and there is delay for time in „Pause“ (F5.13). The petrol nozzle under number (F5.27) which is measured will be backlighten with yellow color.
7. Impulses duration measuring and averaging are carried out for pointed petrol nozzle (F5.26) for time in „Stabilization time“ (F5.14).
8. The gas nozzles under number (F5.25) which is measured will be backlighten with yellow color. There is delay for time in „Pause“ (F5.13).
9. Impulses duration measuring and averaging are carried out for pointed petrol nozzle on gas (F5.25) for time in „Stabilization time“ (F5.14).
10. Impulses durations for pointed nozzles on gas (F5.25) and petrol (F5.26) are compared and individual adjustment factor is calculated for pointed gas nozzle.
11. The program returns to p. 6 and repeats until all nozzles are tested, further it goes to next step.
12. Adjustment factors (F5.24) are transmitted to ProGAS system.
13. Influence factors (F11.7, F11.9, F11.11, F11.13), are restored in ProGAS system, if option „Animation“ (F5.3) is on the program switches to bookmark „Configuration, Options“ (F11) temporarily, in order to make certain that influence factors available, further it returns to current bookmark and goes to next step.
14. After successful positioning complete **it is obligatory to repeat autocalibration**, where gas nozzles adjustment factors (F5.24) participate.

By autocalibration results, it is possible to adjust factor for every gas nozzle (F5.28), (F5.29) manually and **(obligatory) to repeat autocalibration** .