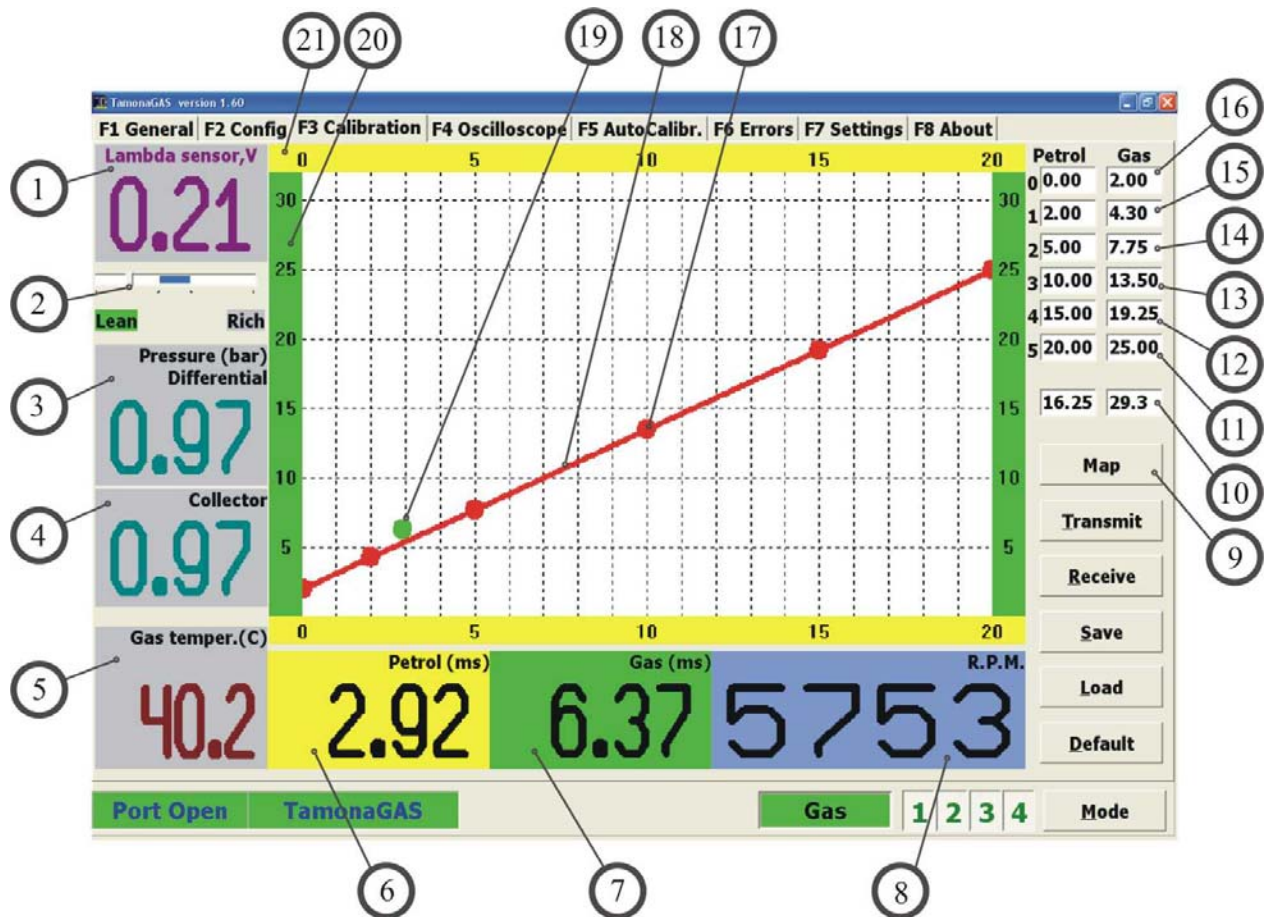


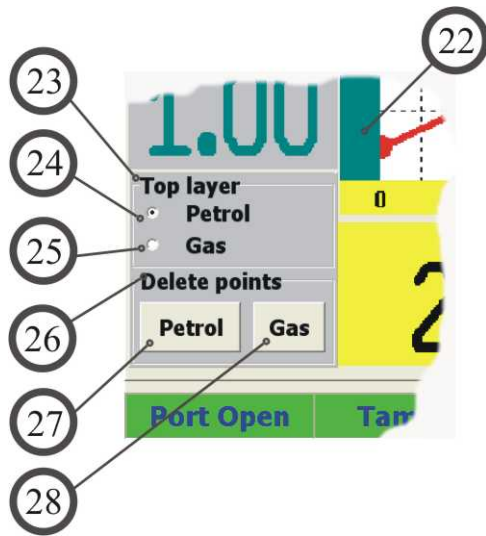
F3. Calibration. Overview



Calibration data control buttons (see file 'F2-F11_eng.pdf')
 "F2. Configuration. F11. Options. Overview"

1. Lambda sensor voltage (V).
2. Mixture contents indicator (lambda sensor).
3. Differential pressure in gas nozzles (bar).
4. Pressure in inlet manifold (bar).
5. Gas temperature ($^{\circ}\text{C}$).
6. Averaged impulses duration for petrol nozzles (ms.).
7. Averaged impulses duration for gas nozzles (ms.).
8. Rounds per minute.
9. Button of switching petrol nozzles impulses card.
10. Current position of the cursor in diagram (ms.)
11. Co-ordinates of curve point 0 (ms.)
12. Co-ordinates of curve point 1 (ms.)
13. Co-ordinates of curve point 2 (ms.)
14. Co-ordinates of curve point 3 (ms.)
15. Co-ordinates of curve point 4 (ms.)
16. Co-ordinates of curve point 5 (ms.)
17. Graphical image of curve point.
18. Graphical image of curve of adjusting of gas nozzles impulses duration.
19. Current ratio gas and petrol nozzles impulses.
20. Y – green scale - gas nozzles impulses duration (ms.).
21. X – yellow scale – petrol nozzles impulses duration (ms.).

F3. Calibration. Button “CARD” is pressed. Overview



22. Y – green-blue scale – pressure (bar).

23. Block of orientation of layers petrol nozzles impulses card.

24. On top – yellow layer of petrol nozzles impulses in the “Petrol” mode.

25. On top – green layer of petrol nozzles impulses in the “Gas” mode.

26. Block of erasion of card points of petrol nozzles impulses .

27. To erase card points of petrol nozzles in “Petrol “ mode (yellow layer).

28. To erase card points of petrol nozzles in “Gas “ mode (green layer).

F3. Calibration. Detailed description

Control buttons . The same as shortcut „Configuration (F2)”

- “Card” (F7.9)

Switches on additional panel of card indication of petrol nozzles duration.

- “Transmit” - “T”

Transmits calibration data (F3) into ProGAS system. If option “Data CFG and CLB together” (F7.7) in bookmark “Settings” is on, configuration data (F2, i.e. F11 and F12) are transmitted , too .

- ” Receive“ - “R”

Receives calibration data (F3) from ProGAS system . If option “Data CFG and CLB together” (F7.7) in bookmark “Settings” is on, configuration data (F2, i.e. F11 and F12) are transmitted , too.

- “Save “- “S”

Records calibration data (F3) into .CFG file . If option “Data CFG and CLB together” (F7.7) in bookmark “Settings” is on, configuration data (F2, i.e. F11 and F12) are transmitted, too. File name in active option on bookmark “Settings” “Show dialogs Save/Load” (F7.5) is shown in standard Windows dialog window and file is saved under name that is set in the option in bookmark “Settings” “File name at program loading” (F7.9) if option is OFF. Standard Windows dialog window does not appear.

- “Load” – “L”

Loads calibration data (F3) from .CFG file . If option “Data CFG and CLB together” (F7.7) in bookmark “Settings” is on, configuration data (F2, i.e. F11 and F12) are transmitted, too. File name in active option on bookmark “Settings” “Show dialogs Save/Load” (F7.5) is shown in standard Windows dialog window and file is saved under name that is set in the option in bookmark “Settings” “File name at program loading” (F7.9) if option is OFF. Standard Windows dialog window does not appear.

- Factory’s “Default” – “D”

Sets factory’s calibration settings (F3).

Car data indication

- “Lambda sensor(V)” (F3.1) Lambda sensor voltage (V).
- Mixture contents indicator (lambda sensor) (F3.2)
- “Pressure” (bar). “Different. “ (F3.3) Differential pressure in gas nozzles.
- “In manifold” (F3.4) Pressure in inlet manifold (vacuum).
- “Gas temperature” (°C)” (F3.5) .
- “Petrol (ms)” (F3.6) Averaged petrol nozzles duration.
- “Gas (ms.) “(F3.7) Averaged gas nozzles duration.
- “Rounds per minute” (F3.8)

Indication of data points of adjusting diagram

- Current co-ordinates of cursor F3.10
- Co-ordinates of curve points F3.11 – F3.16
- Point of adjusting curve F3.17
- Adjusting curve F3.18
- Current ratio of petrol and gas nozzles impulses F3.19
- Gas impulses scale (ms.) F3.20
- Petrol impulses scale (ms.) F3.21

F3. Calibration. Diagram schedule

Points pick and move



Image of picked point (in blue)

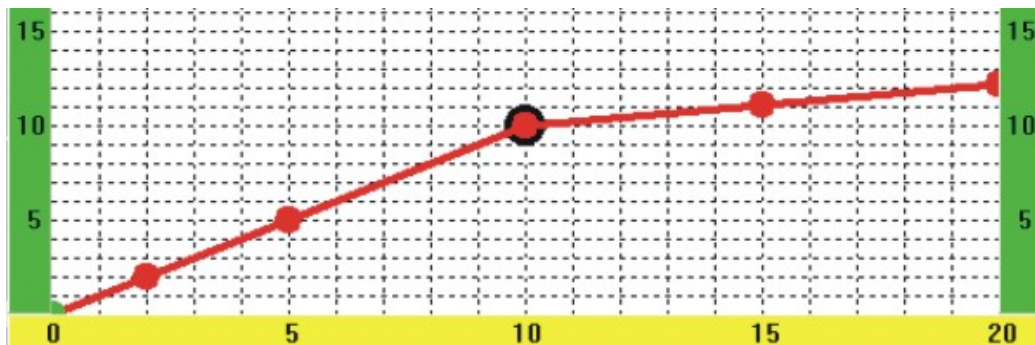
Points pick and move with mouse

By moving the cursor with mouse for one of five points it changes to arrow pointing to directions to move the point. The point becomes blue and there is the number as above. The co-ordinates are marked with green and yellow colors (pp. 11-16). By pressing the left button of the mouse and holding it you may move the point within blue border. By releasing the left button of the mouse the point is fixed.

Points pick and move with keyboard

Numbers from “0” (left) to “5” (right) correspond to picked point. By cursor control buttons (buttons “arrow key”) you may move the point within blue border. The second pressing of the number or “Esc” cancels the point marking.

Break points picking and moving



Break point image (marked in black)

Points pick and move with mouse

By marking the cursor on the point (from 1 to 4) and pressing the right button the break point is marked with black. You may move it as described above. “Moving up/down” of the points 0 and 5 is carried out regarding picked break point. In order to release the break point to place the cursor on the point and click the left button of the mouse.

Points pick and move with keyboard

By pressing the button “P” and holding it and pressing the number 1 to 4, you may mark the break point (in black). You may move the point as above. “Moving up/down” of the points 0 and 5 is carried out regarding picked break point. The second pressing “P” + number eliminates break marking.

The ways of picking and moving could be combined. In the points moving, their co-ordinates are indicated (pp. 11-16) and lightened in yellow (X-petrol) and green (Y – Gas) colors.