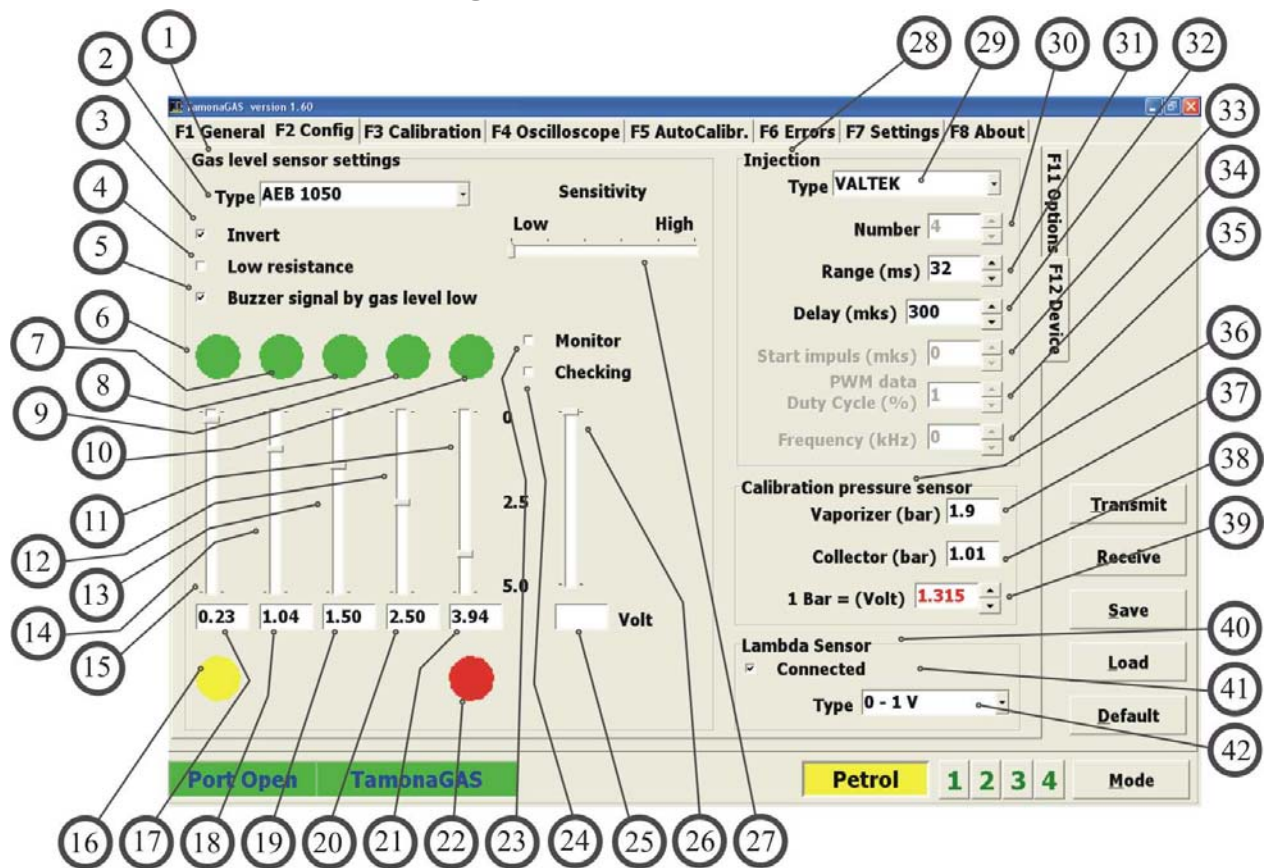


## F2. Configuration. F12. Tools. Overview



Data configuration control buttons (see file 'F2-F11\_eng.pdf')

«F2. Configuration . F11. Options. Overview»

1. Block of adjusting level sensor in gas tank.
2. Sensor type.
3. Data sensor inverting.
4. Low-resistance type of sensor.
5. Switch on control buzzer at low gas level in tank.
6. Remote control green LED 1 ( "Gas mode").
7. Remote control green LED 2 ( "Gas mode").
8. Remote control green LED 3 ( "Gas mode").
9. Remote control green LED 4 ( "Gas mode").
10. Remote control green LED 5 ( "Gas mode").
11. Slider of sensor threshold 5 adjusting
12. Slider of sensor threshold 4 adjusting
13. Slider of sensor threshold 3 adjusting
14. Slider of sensor threshold 2 adjusting
15. Slider of sensor threshold 1 adjusting
16. Remote control yellow ( "Petrol" mode).
17. Threshold 1 indication ( 0...5 V).
18. Threshold 2 indication ( 0...5 V).
19. Threshold 3 indication ( 0...5 V).
20. Threshold 4 indication ( 0...5 V).
21. Threshold 5 indication ( 0...5 V).
22. Remote control red LED ( "Gas" mode).
23. Sensor performance monitoring.
24. Local checking of sensor adjusting.
25. Level sensor data indicator ( 0...5 V).
26. Slider of local checking sensor thresholds sensor
27. Sensor sensitivity.

## **28. Block of gas nozzles adjusting.**

29. Nozzles type.

30. Number of nozzles (4 for present version ).

31. Maximal limit of nozzles impulse duration (from 20 to 32 ms).

32. Gas nozzle delay (us).

33. Impulse duration to open nozzle(us). Available only at nozzle type choice "ANOTHER".

34. PWM On-Off time ratio (%).Available only at nozzle type choice "ANOTHER".

35. PWM (KHz). Available only at nozzle type choice "ANOTHER".

## **36. Block of pressure sensor adjusting.**

37. Absolute gas pressure in vaporizer output (bar).

38. Pressure in inlet manifold (bar).

39. Voltage at atmospheric pressure (1 bar).

## **40. Block of lambda sensor adjusting.**

41. Lambda sensor switching on.

42. Lambda sensor type.

# **F2. Configuration. F12. Devices. Detailed description.**

**Attention!** If in bookmark "Settings" (F7) option "Transmit data immediately" (F7.29) is off it is necessary to push button "Transmit" or button "T" (Transmit) after data configuration changes, in order to save data in ProGas.

## **Adjusting of level sensor in tank (F12.1).**

### **• "Sensor type" (F12.2) :**

- RESERVE (the rest, sensor is connected);
- A.E.B. 1050;
- HANA;
- AEB TOMASETTO.

### **• "To invert" (F12.3).**

Sensor data inverting.

### **• "Low-resistance sensor" (F12.4).**

To switch if the sensor is low-resistance

### **• "Remote signal at low gas level ". (advisable).**

The buzzer that built-in remote controls sounds twice if gas level is low (red LED is on).

### **• Remote control indication of gas in the tank. F12.6 – F12.10, F12.22**

### **• Sensor thresholds adjusting. F12.11 – F12.15**

### **• Sensor threshold indication (from 0 to 5 V) F12.17 – F12.21**

### **• Monitor (F12.23).**

Sensor performance monitoring. Level sensor data are received from ProGAS system and are displayed (F12.6 – F12.10, F12.22), the slider of thresholds checking (F12.26) and to indicator level sensor data (F12.25). The slider of thresholds checking (F12.11 – F12.15) and checking slider (F12.26) are blocked .

### **• "To check" (F12.24).**

Local checking of sensor adjusting. Checking slider is accessible (F12.26) . It simulates sensor performance.

### **• Level sensor data indicator (from 0 to 5 V) (F12.25).**

### **• Checking slider of threshold adjusting (F12.26).**

Simulating of sensor performance by checking slider move, visual checking of thresholds adjusting is carried out.

### **• "Sensitivity" (F12.27).**

High- fast reaction onto gas level changes.

Low - slow reaction onto gas level changes ( it eliminates indication blinking by sensor data averaging).

### **Gas nozzles adjusting (F12.28)**

- “Nozzle type” F12.29) :
  - VALTEK 3 Om;
  - MATRIX;
  - REG;
  - MEMBRANE;
  - ZAVOLI;
  - VALTEK 1 Om;
  - ANOTHER.
- “Nozzles number “ (F12.30) ( 4 for present version).
- “Range “ (F12.31)

Maximal limit of nozzles impulses duration (from 20 to 32 ms.) (32 ms. is recommended).

- “Delay” (F12.32)  
Gas nozzle delay (us) (300 us is recommended).
- “Start” (F12.33).

Impulse duration that is necessary to keep nozzle open (us). Is available only for nozzle option “ANOTHER”.

- “WPM , On-OFF ratio“ (F12.34).  
Width Ppulse Modulation on-off ratio (%). Is availbale only for nozzle option “ANOTHER”.
- “WPM data. Frequency” (F12.35).  
WPM frequency (kHz) . Is available only for nozzle option “ANOTHER”.

### **Pressure sensor adjusting (F12.36).**

Indicators F12.37 and F12.38 has to show 1 (bar) when voltage is supplied to sensors **(both sensors must have atmospheric pressure)**. If no, sensor has to be adjusted to one or other side.

- “Vaporizer” ( F12.37)  
Absolute gas pressure on vaporizer output (bar).
- “Manifold” (F12.38)  
Pressure in inlet manifold (bar).
- “1 Bar = (Volt” (F12.39)  
Voltage at pressure 1 atm. (1 bar) .

### **Lambda sensor adjusting (F12.40).**

- “Lambda sensor is On” (F12.41)
- “Lambda sensor type” (F12.42) :
  - 0 - 1 V;
  - 0 - 5 V +.