



**Measurement controller for
pressure in fuel and pneumatic systems.**

PR-Tester v1.4b

Passport

Technical description

Operating Instructions

Warranty card

2012.

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General

This manual contains the information necessary to use the Pr-tester v1.4b blood pressure monitor correctly and safely. Please read this manual carefully before using the device and if you have any questions, please contact the manufacturer or its authorised service centres directly.

1. Assignment

Pr-tester v1.4b, hereinafter referred to as the tester, is used to measure the pressure in the fuel system and has the possibility to connect an external differential pressure sensor MPX4250D or MPX5500 to measure the pressure or air vacuum. The tester displays the current and maximum pressure value and has an automatic switch-off function.

2. Supply package

The package includes:

- pressure measuring device Pr-tester v1.1b.....1 pcs;
- Alkaline battery "Krona", voltage +9V.....1 pcs;
- instruction manual, warranty card.....1 pcs;
- original connector-adapter for pressure sensor 1800Bar.....1 pcs.
- adapter for self-soldering.....1 pcs.
- original connector-adapter for pressure sensor 1500Bar.....1 pcs.

3. Additional external sensors

Differential pressure sensors (purchase separately):

- MPX4250
- MPX5500

4. Operating conditions

- operating temperature range: 0...+55⁰ C;
- condensation-free relative humidity +25⁰ C: up to 85%;
- environment: explosion-proof, free of aggressive gases.

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4.1. Specifications PR-Tester v1.1b

Characterisation	Significance
• length of communication lines:	no more than m1.5
• cross-section of wires of communication lines:	at least 0.25 mm ²
• supply voltage:	9 V battery
• power consumption (without sensor):	0.11 W
• Pr-tester v1.0b overall dimensions (h/w/h.):	90x65x28 mm
• weight (without battery):	150 g

4.2. Technical data for external pressure sensors

Characterisation	Pressure sensor	
•	MPX4250	MPX5500
• Scope of application	Air pressure monitoring	Air pressure monitoring
• gauge measuring range, bar:	0÷2,5	0÷5
• vacuum gauge measuring range, bar:	0÷-2,5	0÷-5
• supply voltage, V	5	5
• current consumption, mA	7	7
• pressure overload, not more than, bar	10	20
• accuracy class,%	1,4	2,5
• operating temperature, °C from	0 to 85	0 to 85
• overall dimensions (d., w., h.),mm	78x38x20	78x38x20
• weight (without battery), g	70	70

5.Preparing for work

Before using the tester, make sure that the case is not damaged or defective due to careless transport or packaging. Insert the battery into the tester.

5.1 Appearance

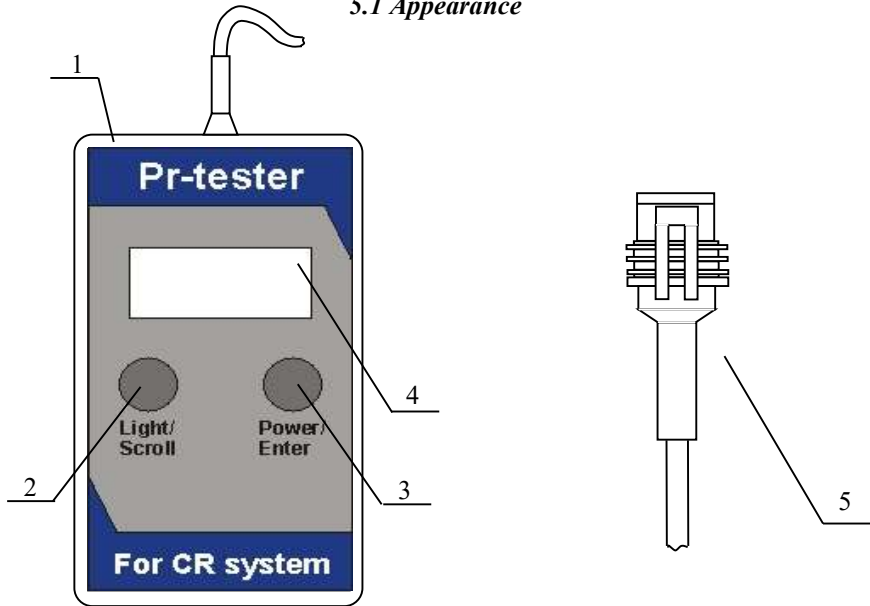


Figure 1 - PR-Tester

1 - housing; 2 - button A; 3 - button B; 4 - display; 5 - connector.

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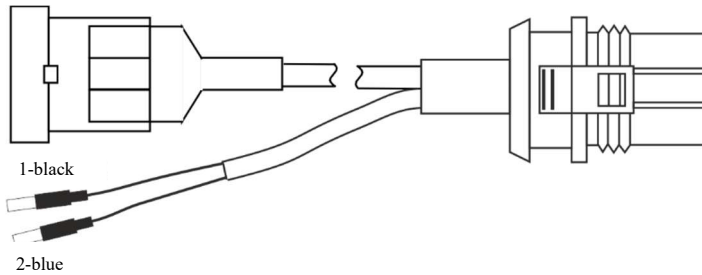


Figure 2 - Pressure sensor connector adapter 140 Bar(0 261 545 006), 1800 Bar(0 281 002 398), 1500 Bar (0 281 002 405)

1 - "GND"; 2 - output; 3 - "VCC".

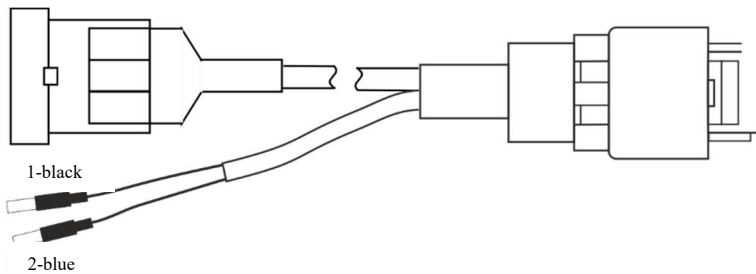


Figure 3 - Adapter to Delphi pressure sensor connector

1 - output ; 2 - "GND"; 3 - "VCC".

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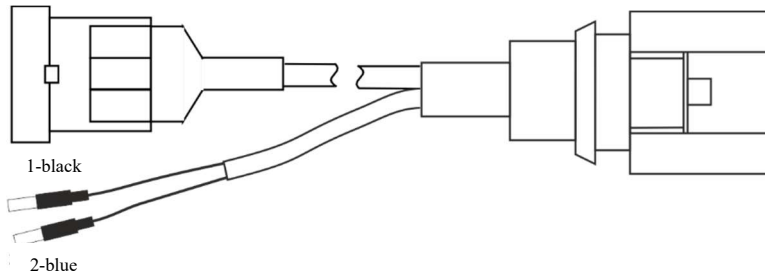


Figure 4 - Adapter to 1500 Bar Pressure Sensor Connector (0 281 002 498, 0 281 002 238)

1 - " GND "; 2 - output; 3 - " VCC " .

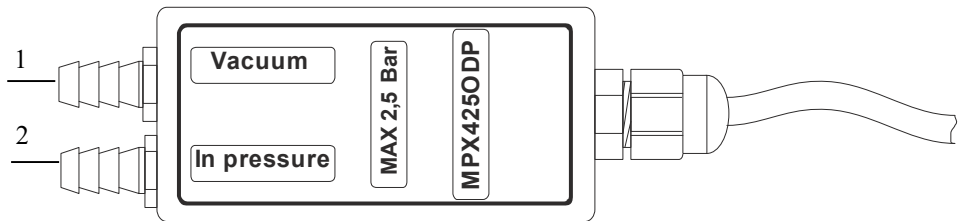


Figure 4 - External pressure sensor MPX 4250DP

1 - Vacuum gauge connection.

2 - manometer connection.

5.2 Power supply voltage

The tester is powered by battery e.g. "VARTA" 9V.

The battery compartment is located on the bottom cover of the instrument.

5.3 Connection procedure

Button assignment (pressing is accompanied by an audible signal):

Combination	Operation
Pressing the B button briefly	Switching on the device/OK
Pressing the B button for a long time	Switching off the device
Long press button A	Switching the display backlight on/off.
Short press button A	Scrolling menu/zeroing results
Pressing both buttons at the same time	Entering the menu

Switch on the device. When the instrument is switched on, the display will show the software version 1.4 and the type of installed sensor within 1 second.

Sensor 1
1800 bar

This parameter is retained when the appliance is switched off.

If no sensor is connected, the screen will display:

---- bar
---- bar

If the sensor is connected and there is no pressure in the system, it will output:

0 bar
0 bar

To select a different sensor type, press both buttons simultaneously. Press the A (Scroll) button to select a sensor.

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Sensor 1
140 bar

Sensor 2
1500 bar

Sensor 3
1800 bar

Sensor 4
MPX4250

Sensor 5
MPX5500

Sensor 6
MPX5700

Sensor 7
DS 6040

To confirm sensor selection, press the B (Enter) button and connect the sensor.
The pressure value will be displayed immediately:

1283 Bar.
1897 Bar.

The upper value is the current pressure value, the lower value is the maximum pressure value. A short press of the Scroll button will reset the maximum pressure value to the current value.

To switch the backlight on/off, press (2 s) button A (Scroll).

To switch off the tester, press (2 s) the B (Power) button until Device off appears and release the button.

Device
off

If the battery is low, a message will be displayed and an audible alarm will sound when the tester is switched on:

Low
battery

✓ **Warning:** *Do not leave a discharged battery in the tester.*

If the sensor is not connected to the device (or the device is in menu mode) and no action is performed on it, it switches off after 3 min. This is accompanied by an acoustic signal.

6. Precautions

For safe installation of the tester, as well as for the continued service life of the tester, the following requirements must be adhered to:

- Do not operate the tester with wet or damp tools;
- It is forbidden to connect to the tester output electrical appliances not provided by the manufacturer;
- It is forbidden to use cables with poor quality insulation when connecting to the tester;
- it is forbidden to touch the tester's circuit board without first removing electrostatic voltage, except for special terminals for battery connection;
- It is forbidden to operate the tester in places with high air temperature and humidity;
- in case of malfunction of the tester (in case of unusual noise or smell) it is necessary to immediately disconnect its power supply and contact the service centre;
- after storing the tester in a cold room or after transporting it in winter, let it warm up to room temperature for two hours before switching it on;
- disconnect the tester from the battery when storing it for long periods of time.

7. Warranty obligations

The manufacturer guarantees trouble-free operation of the tester during the whole operation period provided that the rules and conditions of operation, transport and storage are observed.

- The warranty period starts from the date of sale of the tester and lasts for 24 months, but not more than two and a half years from the date of manufacture. The date of sale should be recorded in the warranty card.
- During the warranty period the period of fault rectification or replacement of the tester shall not exceed fourteen days from the date of receipt of the defective tester by the Manufacturer. The warranty period lasts for the period of repair.
- After the warranty period expires, the Manufacturer, under an additional agreement, can provide service and technical support of the tester.
- The manufacturer guarantees information support, and after the end of the warranty period, with an additional contract, undertakes to provide schematic diagrams of the tester.

8. Limitation of warranty

The warranty will be cancelled if:

- a blank or incorrectly filled in warranty card;
- incorrect connection of the tester power supply;
- violation of the tester operation rules;
- violation of the conditions of use;
- making changes to the tester design, making modifications, using assemblies, parts, components not provided by the manufacturer;
- traces of mechanical damage to the tester's case or circuit board;
- presence of traces of influence of aggressive media.

Warranty card.

Serial number: _____

Date of manufacture: _____
(date, month, year)

Продавец: _____
(registered address, telephone number)

Date of Sale: _____
(date, month, year)

Seller's signature _____
(signature, full name)

Warranty repair contractor _____
(legal address, telephone number)

Date of acceptance for warranty registration: _____
(date, month, year)

Signature of the executor _____
(signature, full name)

Owner: _____
(registered address, telephone number)

I am familiar with the terms and conditions of the warranty.

Signature of the owner _____
(signature, full name)