

User manual of the analyzer high pressure common rail DT1000PC

The tester is used to analyze high-pressure common-rail
To measure the pressure uses a high pressure sensor,for which you connect interface.

Before starting the program you must install the USB driver for the interface.
Drivers are supplied on CD.

INSTALLING USB DRIVER

1. plug USB cable to your PC
 2. wait until the computer detects the interface
 3. identify the drivers of the "specific location", ie the folder CD
 4. two drivers are installed. USB device and a virtual COM port (if one is not already installed)
- So we will repeat these steps two times.
5. computer indicates that the driver is not digitally signed and asks if continue to confirm the installation "continue anyway"
 6. after installing the computer will confirm the correct installation

Now you need to check , which COM port interface installed as virtual COM port

To see which port is connected to the interface:

1. press start
2. the right mouse button click on "My Computer"
3. click on properties
4. select the "Hardware"
5. click "device manager"
6. find on the list "Ports COM and LPT"
7. click on the cross in order expand
8. Now we see the "USB Serial Port (COM number)

INSTALLATION the "high pressure analyzer"

1. From the CD run the setup.exe file
2. The first step is to install "net.Framework"
(if it is not installed on your computer), the program installs itself automatically.

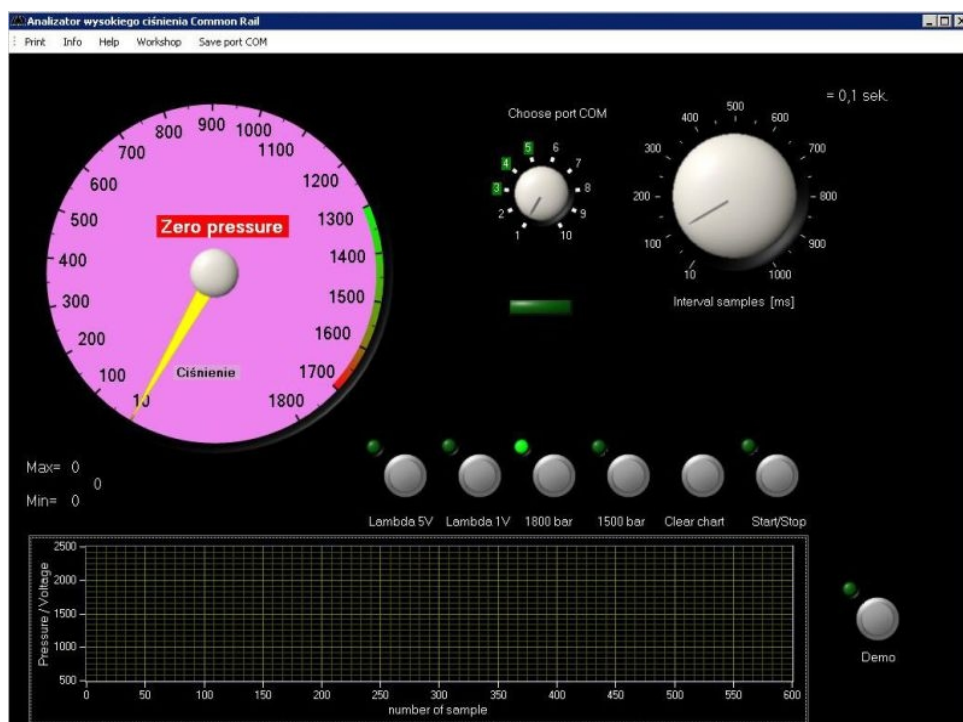
During installation, confirm questions "yes"
After installation, the computer is restarted.
NetFramework Installation can take up to 10 minutes.

3. Next will be install WindowsInstaller.3
It is needed to install the analyzer pressure
4. Now will instal software "Analyzer common rail", confirm all questions of installer
5. After installation , shortcut will be on the desktop

Now you can run software

description of the buttons is in the picture below

- 1.Large gauge indicates the current pressure or voltage
- 2.Knob "Interval" is used to inflict the measurement interval between measurement samples
- 3.Knob "Select the COM port" is used to select the communication port
- 4.On the graph is plotted the measured pressure. the speed setpoint by the interval
- 5.DEMO button is used to test the possibilities of the program, the pressure is simulated by the program, it is not received from the port.
- 6.Buttons to choose the type of sensors are used to select the sensor according to his measuring range, the cars are used two types of to 1600bar and 1800bar
- 7.The "Clear chart" button will clear all chart
- 8.the "Start / Stop" button starts or stops the program.



OPERATION program and equipment

Before starting the program you need to enable USB interface to the computer (because otherwise the program will not recognize the COM port)

Then you can connect the interface to the car. To do this, connect GND black alligator clip to any GND point closest to the sensor, GND because the car may not have proper conductivity and can falsify the measurement result.

Using the supplied needle, pierce the signal cable.

The sensor has three wires +5 V, the mass and tone, if is connected wrong , nothing will be damaged,

but the pressure signal will not be properly read.

When you connect, select the COM port (ports available are highlighted in green).

Next you must choose the type of sensor,

In older cars are used 1600bar sensors, in the new 1800bar, type of sensor need to check the documentation for the car.

The next step is to choose a scope of interval measurement.

Generally, the faster draws a graph, it is more accurate, ie at 10 ms data are most accurate, then the measurement is taken 100 times per second.

Last step is to start the measurement by pressing START, or STOP.

All settings can be changed during the measurement without the COM port.

Manipulating the COM port during the measurement will stop the measurement

Next to the pressure gauge you can see the maximum, minimum and average pressure during the entire measurement

After stopping the measurement, you are at the disposal of the cursor on the graph, cursor is a blue horizontal line that you can move the mouse (up or down), studying the pressure levels on the chart. moving the cursor around on the chart, in the blue box is indicated pressure stopped at the point where the cursor.

Viewing range of the chart. can be changed. that is, we can see chart the history between samples that interest us,

to change the range, click on the start or end range (ie 0 or 600) when you click, the number will go into edit mode and enter the value from the keyboard what we need, this can stretch the graph (by setting a small difference between the start and end) or see more samples, enter wider range. Storage of samples is set to 5000, so above this numbers will not be visible chart.

If during the measurement chart to fit on the graph then the graph will be move to the left.

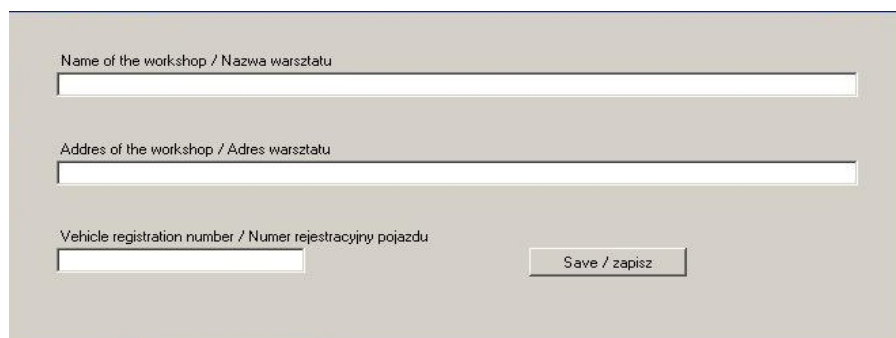
Printing:

You can print a recorded chart, the chart is printed only visible on the screen, before printing you can see the print preview then click printer image to print, or "close" to cancel

Color pressure gauge can be changed by clicking on a shield.

You may remember the COM port number by clicking on the tab "Save port COM."

In the "Workshop" please write :



The screenshot shows a web form for entering workshop information. It has a light gray background and a thin border. There are three input fields, each with a label above it in a small font. The first label is 'Name of the workshop / Nazwa warsztatu', the second is 'Address of the workshop / Adres warsztatu', and the third is 'Vehicle registration number / Numer rejestracyjny pojazdu'. The third input field is shorter than the others. To the right of the third input field is a button labeled 'Save / zapisz'.

Name of the workshop / Nazwa warsztatu	
Address of the workshop / Adres warsztatu	
Vehicle registration number / Numer rejestracyjny pojazdu	
	Save / zapisz

- 1.Name of the Workshop
- 2.Address of the Workshop
- 3.Vehicle registration number
4. click save

These data will be printed on the printout.

NOTES :

The axis of the pressure adjusts automatically to the signal that was the most expanded

during the measurement time shows "waiting for transmission"
this is normal, but when the signal disappears completely, ie when failure of the interface cable, USB driver installation error, or other factors, then the string will be displayed continuously.

While errors in transmission or improperly selected COM port will be in August inscription appeared **PROBLEM with received data from COM PORT** reading will be stopped

When the program is behaving inappropriately, you must restart the program.

If during the measurement in the upper left corner does not display "STATUS OK".
That is a problem with the interface, such as damaged cable, the wrong port, etc.

The software is designed exclusively for 32-bit computers,
ie Windows Vista 64-bit will not be supported, but Vista 32-bit and XP are supported.

Interface has a built-in dongle, without the original interface software will not work.

Follow the terms of the license, the text is contained in the INFO tab.