



PICO Automotive Pressure Transducer



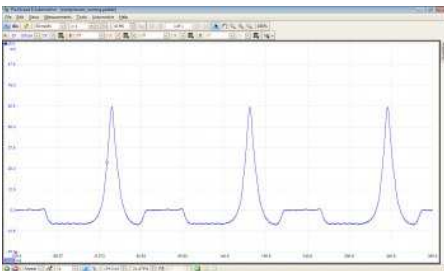
- Accurately measure up to 500 psi
- Ultra-fast 100 μ s response time
- Zoom function for enhanced analysis capabilities
- Rechargeable LiPo battery
- Integrated pressure relief / bleed-off valve
- Auto zeroing
- High noise immunity
- Temperature compensated

With the uncompromising resolution and accuracy of the WPS500X Automotive Pressure Transducer you can perform quick and accurate pressure analysis of many automotive systems.

The WPS5000X features an extremely fast 100 μ s response rate from 0% to 90% of full scale and sensitivity down to about 0.07 psi (5 mbar). This provides you with an accurate representation of rapidly changing signals that span across a broad pressure range.

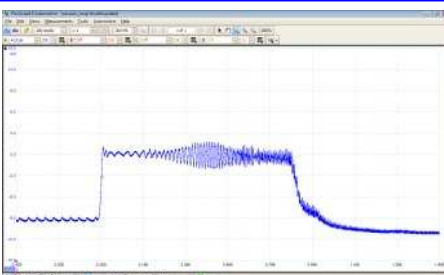
Three pressure ranges = performance and versatility

The three pressure ranges of the WPS500X allow for accurate measurement and analysis of many automotive pressures including cylinder compression, fuel pressure, intake manifold vacuum and even pulses from the exhaust.



Range 1 : Running compression waveform

The first range gives you high-resolution and accuracy for high-pressure tests such as cranking and running cylinder compression or fuel pressure testing. Not only is this test a great way for you to find compression issues, but it is also an excellent way for you to identify cam timing issues such as jumped timing belts and stretched timing chains - this is especially useful on multi-cam engines that may not have a cam sensor on each camshaft.



Range 2

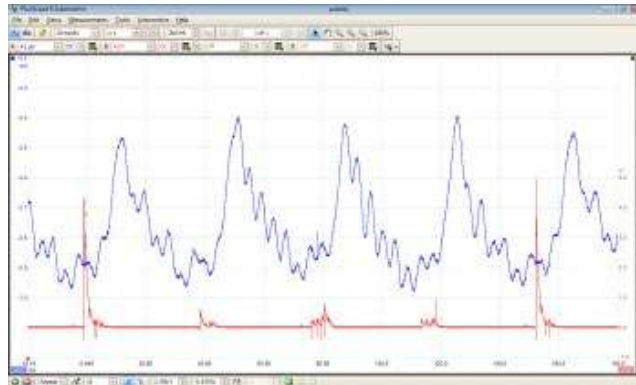
The second range measures from -15 to 50 psi (approximately -1 to 3.45 bar). This range is ideal for vacuum tests and fuel system tests. When testing these systems you will find the zoom function is especially useful as it makes it easy to analyse the valves operating with the vacuum waveform, or the injectors through the fuel waveform.

Range	Pressure range	Accuracy	Response time	Output scaling
1	-15 to 500 psi -1 to 34.47 bar	1% of scale	100 μ s	10 mV/1 psi (500 psi = 5 V)
2	-15 to 50 psi -1 to 3.45 bar	1% of scale	100 μ s	100 mV/1 psi (50 psi = 5 V)
3	-5 to 5 psi -0.34 to 0.34 bar	NS	NS	1 V/1 psi (5 psi = 5 V)

Range 3

With the third range you can measure -5 to 5 psi (approximately -0.34 to 0.34 bar). This setting is sensitive enough to allow you to analyse small pressures or pulses such as pulses from the exhaust

Built-in zoom function for enhanced analysis



Using the zoom function to show intake valve pulses (ChA)

The zoom function operates by removing all of the voltage from the signal below 100 Hz and then multiplying the remaining signal up to 100 times. For example: Lets say your transducer is connected to the intake manifold vacuum on a running engine at idle with the transducer set to mode 2 (-15 to 50 psi) and the waveform on your PicoScope is at -9 psi. The fluctuation in the signal caused by the valves opening and closing verses atmospheric pressure forcing air into the manifold will be visible, but will only make up a small portion of the overall signal. Selecting the zoom function will bring the waveform up to the zero line and the fluctuations will be magnified making analysis of this component of the signal much clearer.

What do I get?

WPS500X pressure transducer
Carry case
USB cable
BNC to BNC cable

Options :

TA103	M10 high-strength compression hose
TA088	M14 high-strength compression hose w/adaptor for deep reach spark plugs
TA104	M18 high-strength compression hose
TA085	Vacuum hose
TA087	Exhaust adapter

Nothing compares to the WPS500X

It is not unusual to require a different pressure transducer for each diagnostic test you want to run. The WPS500X eliminates this need by giving you one ultra-high resolution transducer that can be used for a multitude of automotive diagnostic applications. With three pressure ranges, a zoom function, pressure relief valve and a rechargeable Li-Po battery all enclosed in a durable housing the WPS500X is the cost-effective answer to pressure analysis.

When price, performance and versatility matter, there is nothing that compares to the WPS500X Automotive Pressure Transducer.