

PicoScope Diagnostics Four-Channel PC Oscilloscope Kit



The PicoScope Oscilloscope Kit is based on the PicoScope 3423 Automotive Oscilloscope and includes PicoScope, a powerful software and information package. The kit turns your laptop or PC into a powerful automotive diagnostics tool for fault-finding the increasing number of sensors, actuators and electronic circuits found on today's vehicles.

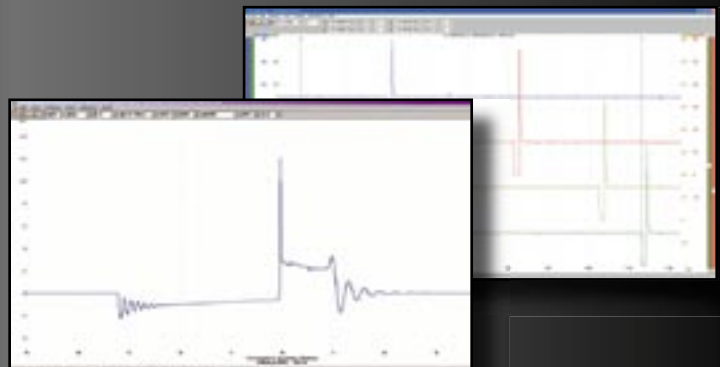
- 12 bit resolution
- Deep 512k sample memory
- Connected to and powered by USB 2.0
- Free software upgrades
- Lifetime technical support

The next generation of automotive diagnostics, as used by leading vehicle manufacturers.

The kit can be used either in the workshop or on the road to test and measure virtually all of the electrical and electronic components and circuits found in the modern vehicle, including;

- Ignition (Primary & Secondary)
- Injectors & Fuel Pumps
- Starter & Charging Circuits
- ABS sensors, Crank & Cam Sensors
- Lambda, Airflow, Knock & MAP Sensors
- Glow Plugs / Timer Relays
- Relative Compression Tests
- CAN bus

The kit is suitable for a range of users including; OEMs, franchised and non-franchised garages, breakdown/roadside recovery organisations and mobile diagnostic & repair services. This powerful and flexible automotive diagnostics tool has been designed for ease of use so is equally suitable for both novice and expert users.



Kit Contents



- PicoScope 3423 Automotive Oscilloscope
- 60A AC/DC Current Clamp
- 600A AC/DC Current Clamp
- 4 x BNC to 4mm Test Leads
- 4 x Secondary Ignition Pickup Leads
- Two-Pin Break-Out Lead
- Acupuncture Probe Set
- Insulation-Piercing Probes
- 2 x 20:1 Attenuator
- USB Cable
- Dolphin Clip (Black)
- Dolphin Clip (Red)
- 2 x Small Croc Clip (Black)
- 2 x Small Croc Clip (Red)
- 2 x Multimeter Probes (Red)
- 2 x Multimeter Probes (Black)
- Automotive Software CD
- Automotive Quick Start Guide
- Carry Case

Each component in the kit may be ordered separately should you require any extras. Please visit our dedicated Automotive website for more information:

www.picoauto.com

Commercial Vehicle Four-Channel Kit

Designed specifically for the testing of vans, trucks and other commercial vehicles, the Commercial Vehicle Diagnostics Kit is used by a host of leading vehicle manufacturers. The Kit includes a 2000A current clamp, ideal for measuring the extremely high currents drawn by the starter motors of commercial vehicles. For further details please visit: www.picoauto.com

Vehicle Manufacturers / OEMs

For vehicle manufacturers, the PicoScope Automotive software can be customised to provide waveforms and data specific to particular makes and models of vehicles. For further information please call us on: +44 (0) 1480 396 395.

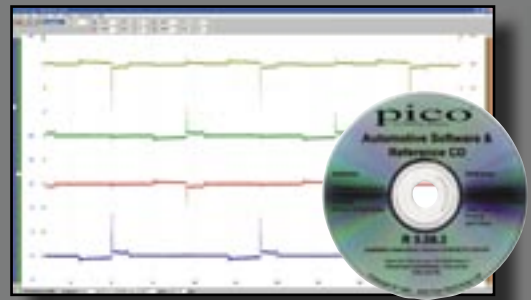
PicoScope Software

PicoScope software has been popular with automotive users since its launch. Its ease of use, automated measurements and the ability to save and print waveforms have all added to its appeal.

An automotive dropdown menu contains a list of different sensors and circuits that can be tested with the Diagnostics Kit. When the subject of interest has been selected, the PicoScope software will automatically do a number of things:

- Load a reference waveform into PicoScope
- Load a reference topic into a web browser
- Automatically load the required settings for PicoScope eliminating the need to spend time setting up the software

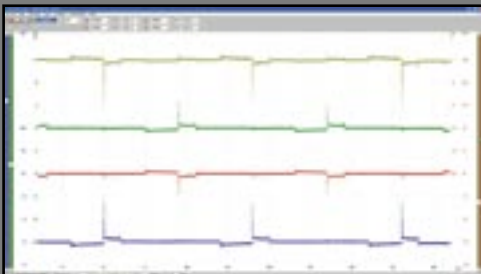
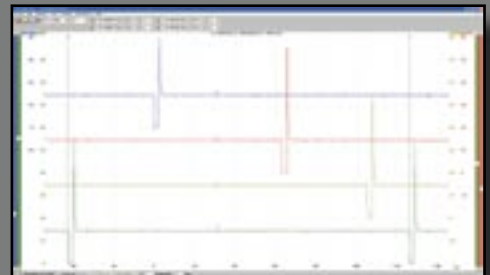
In addition, free software upgrades are available to download from our website at: www.picotech.com



Example Waveforms

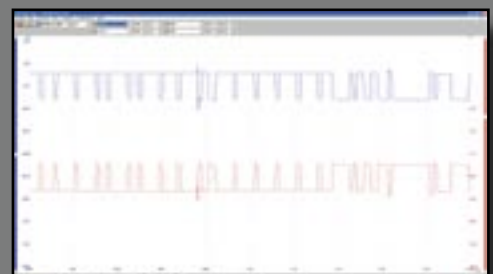
Injector (Voltage):

This waveform shows Injector Voltage signals from all 4 injectors from Bank 1 of a V8 cylinder engine. This clearly shows the timing of the injector events and the correct operation of the injector driver in the ECU.



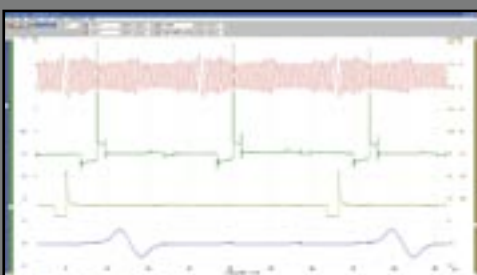
Secondary Ignition:

This waveform shows Secondary Ignition signals from all 4 spark plugs of a 4 cylinder engine with a DIS wasted spark ignition system. The high resolution and deep memory of the PicoScope 3423 Oscilloscope gives a superbly detailed secondary ignition waveform, unrivalled in the automotive sector. From this waveform we can measure the firing voltage, the burn time and the burn voltage.



CAN bus:

This waveform shows the H and L signals on a CAN bus. The PicoScope 3423 Automotive Oscilloscope can capture even high-speed CAN bus signals with excellent time and voltage resolution, making it easy to investigate problems such as missing terminations, incorrect voltage levels and shorted wires.



This waveform shows a Camshaft sensor on channel A, a Crankshaft sensor on channel B, a Secondary Ignition on channel C and an Injector Voltage on Channel D. These were captured from a 4 cylinder engine with a DIS wasted spark ignition system.

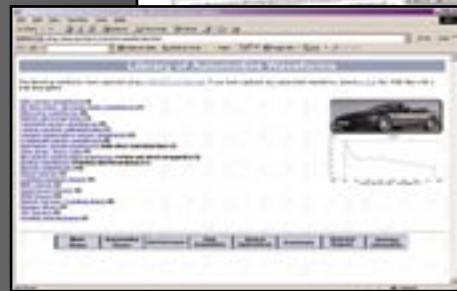
Automotive Support

Built-in Technical Library

- Each Automotive Kit includes the full version of PicoScope with access to over 50 topics and waveforms.
- If you would like to try before you buy, simply download the demo version of the software at: www.picotech.com/demo.html

Automotive Technical Experts

- Our team of technical experts are on hand to assist you with your purchase and any technical queries you may have. We offer e-mail support in English, French and Spanish.



Automotive Training Courses

- Pico Technology run a number of diagnostic training courses throughout the UK. Focusing on Engine Management diagnostics, the courses will show you how to get the best from the PicoScope software and Diagnostics Kit.

Online

- The Pico Technology website features a support forum where members can post questions and share comments on Pico Products.
- Our website also contains a series of Automotive tutorials and application notes, designed to expand the user's knowledge of automotive diagnostics.

Pricing & Ordering

You may order directly from Pico Technology or from one of our authorised dealers. We have a network of distributors worldwide, details of which can be found at: www.picotech.com/distribl.html

PicoScope 3423 Oscilloscope Kit

£1225 (excl. VAT)

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