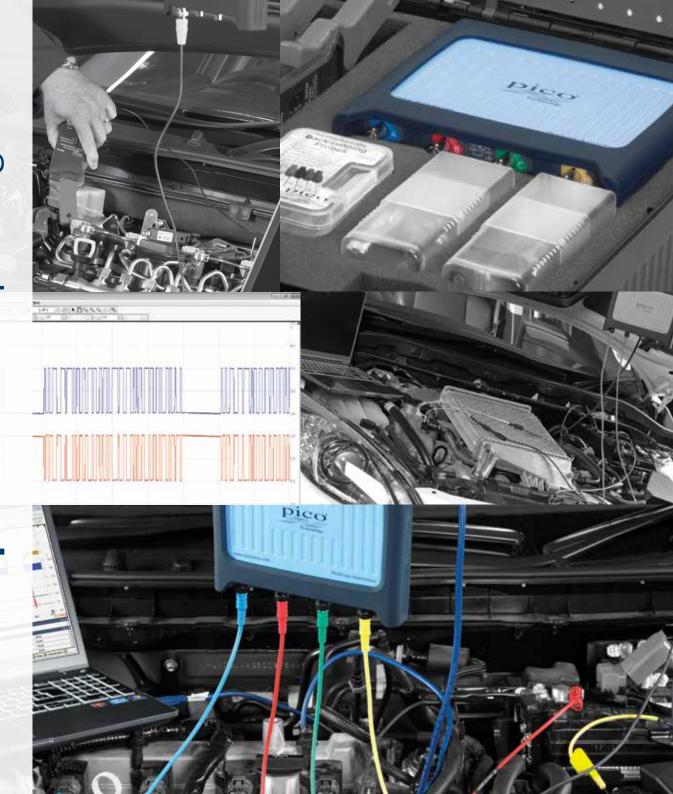
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HOSES.... PROBES CLAMPS CURRENT LEADS TEST

PicoScope Oscilloscope Diagnostics



# 2-CHANNEL STARTER KIT • 4-CHANNEL STARTER KIT •

### 2-Ch £595 \$982 €720 4-Ch £975 \$1609 €1180

### **2-CHANNEL**

PicoScope 4225 2-channel scope with rubber case

1 x Small crocodile clip black & red, 2 x BNC to 4 mm test leads: blue and red, 1.8m Pico USB3 Cable,

1 x Battery Clip black & red, 1 x Flexible backpinning Probe black & red,

1 x high bandwidth 10:1 attenuator, PicoScope Software CD,

Pico Advanced Vehicle Diagnostics DVD, Quick start guide

### **4-CHANNEL**

PicoScope 4425 4-channel scope with rubber case

 $2 \times Small$  crocodile clip black & red,  $4 \times BNC$  to 4 mm test leads: blue, red, green, yellow, 1.8m Pico USB3 Cable, 1  $\times$  Battery Clip red, 2  $\times$  Battery Clip black, 2  $\times$  Flexible backpinning Probe black & red,

1 x high bandwidth 10:1 attenuator, PicoScope Software CD,

Pico Advanced Vehicle Diagnostics DVD, Quick start guide



ORDER CODE PP920 Starter 2-Channel Scope Kit PP921 Starter 4-Channel Scope Kit

# 2-CHANNEL or 4-CHANNEL STANDARD KIT

2-Ch £1115 \$1840 €1349 4-Ch £1475 \$2434 €1785

### 2-CHANNEL

Contains all the items in the 2-channel starter kit plus:

S Hook, 1 x Multimeter style test probe black & red, Back-pinning probes, Shrouded to unshrouded 4mm adaptor black & red, 20A/ 60A DC current clamp, 2000A/200A Current clamp with BNC, BNC to BNC lead with earth clamp, COP & signal probe, PicoScope Case, Fuse breakout kit ATC & Mini, Posters: ECU & PicoScope Automotive

### **4-CHANNEL**

Contains all the items in the 4-channel starter kit plus:

S Hook, 1 x Multimeter style test probe black & red, Back-pinning probes 1 x Shrouded to unshrouded 4mm adaptor black & red, 20A/ 60A DC current clamp, BNC to BNC lead with earth clamp, 1 x high bandwidth 10:1 attenuator COP & signal probe, PicoScope Case, Fuse breakout kit ATC & Mini 2000A/200A Current clamp with BNC

Posters: ECU & PicoScope Automotive



ORDER CODE PP922 Standard 2-Channel Scope Kit
PP923 Standard 4-Channel Scope Kit

### 4-CHANNEL DIESEL KIT

PicoScope 4425 4-channel scope with rubber case Oscilloscope probe for use with CAN, LIN and FlexRAY signals

2 x S Hook, 2 x Multimeter style test probe black & red, 2 x Small crocodile clip black & red, Back-pinning probes, 2 pin breakout lead,

2 x Shrouded to unshrouded 4mm adaptor black & red,

20A/ 60A DC current clamp, 2000A/200A Current clamp with BNC

4 x BNC to 4 mm test leads: blue, red, green, yellow,

1.8m Pico USB3 Cable, 1 x Battery Clip red, 2 x Battery Clip black,

 $2 \times \text{Flexible backpinning Probe black \& red, high bandwidth 10:1 attenuator}$ 

Premium Test Lead: 5 m BNC to 4mm black Permanent ground

PicoScope Case, Fuse breakout kit ATC & Mini, JCASE Fuse Extension Lead

PicoScope Software CD, Pico Advanced Vehicle Diagnostics DVD

Posters: ECU & PicoScope Automotive, Quick start guide



ORDER CODE PP924 Diesel 4-Channel Scope Kit

# 4-CHANNEL ADVANCED KIT

£1995 \$3292 €2414

PicoScope 4425 4-channel scope with rubber case
Oscilloscope probe for use with CAN, LIN and FlexRAY signals

 $4 \times Secondary Ignition Pickup, 2 \times S Hook,$ 

 $2 \times Multimeter$  style test probe black & red,

2 x Small crocodile clip black & red, 1 x Dolphin clip black & red Back-pinning probes, 2 pin breakout lead

 $2 \times Shrouded$  to unshrouded 4mm adaptor black & red

2 x 20A/ 60A DC current clamp, 2000A/200A Current clamp with BNC, Breakout cables micro, small, medium & large

Breakout cables micro, small, medium & large

BNC to BNC lead with earth clamp,  $4 \times 5$  park plug extension test lead Earth wire for coil pack 45cm long,  $2 \times 1$  high bandwidth 10:1 attenuator, COP & signal probe,  $4 \times 1$  BNC to 4 mm test leads: blue, red, green, yellow,

1.8m Pico USB3 Cable, 1 x Battery Clip red, 2 x Battery Clip black

2 x Flexible backpinning Probe black & red, PicoScope Case,

Fuse breakout kit ATC & Mini, PicoScope Software CD,

Pico Advanced Vehicle Diagnostics DVD,

Posters: ECU & PicoScope Automotive, Quick start guide



ORDER CODE PP925 Advanced 4-Channel Scope Kit

### FIX IT RIGHT FIRST TIME

Whether or not you have a fault code, swapping parts risks repeat customer visits or unnecessary expense. A PicoScope lets you see what's really happening on the vehicle to eliminate guesswork. Whether it is drivability concerns, intermittent problems or just not an obvious fault, a PicoScope reveals the information a scan tool can't, so you can find faults and fix them right first time.

Our kits come with selected accessories to assist you with the job at hand. The starter kit introduces you to the world of oscilloscope diagnostics, equipped with the basic accessories needed for the most common tests; while the advanced kit contains everything you need to carry out your diagnostics work.

### PICOSCOPE IS THE SCOPE OF CHOICE

PicoScopes are chosen by more vehicle manufacturers than any other scope, because they are the perfect tool for your most demanding diagnostic needs, and an essential complement to a scan tool. We have made our software simple and intuitive to use, with help and reference waveforms to guide you through diagnosing sensors, actuators and systems with ease.

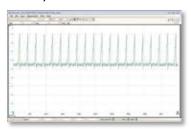
PicoScope connects to your PC via USB, giving you a display as big as your laptop or external screen. This means you can clearly see what is happening, making for easy diagnostics of intermittent and hard faults. With a 250 million sample memory in the scope, and up to 400 million samples per second, you can capture the most demanding automotive waveforms – including CAN bus and FlexRay.

# PICKED YOUR KIT? NOW MAKE SURE YOU HAVE THE RIGHT ACCESSORIES TO GO WITH IT...

The Pico range of automotive accessories is ideal for use with PicoScope automotive diagnostics kits, automotive oscilloscopes and other labscopes. Over the next few pages you will find a full list of all the accessories we offer. The items that are included in the six kits have a colour coded circle next to them to indicate this.

- O2-Channel Starter kit •4-Channel Starter kit
- Standard kits
- 4 Channel advanced kit Diesel vehicle kit

### 60 A / 20 A CURRENT CLAMP



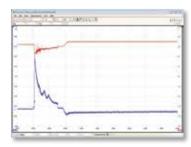
The 60 A current clamp allows you to measure current up to 60 amps in a wire without cutting, disconnecting or stripping the wire. It plugs directly into the PicoScope, and is ideal for measuring current waveforms from fuel pumps, injectors and ignition coils. When the correct preset test is selected, PicoScope shows current readings in amps.



BNC 60 A current clamp TA018 £99 \$165.35 €119.79



### 2000 A / 200 A CURRENT CLAMP



The new 2000A / 200A heavy duty current clamp allows you to measure up to 2000A without cutting, disconnecting or stripping the wire. It is ideal for measuring the high currents drawn by the starter motor of commercial vehicles and large engine passenger cars.

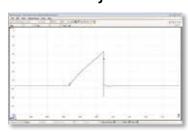


BNC 2000 A current clamp TA167 £155 \$255.75 €187.55





### 30 A LARGE JAW CURRENT CLAMP



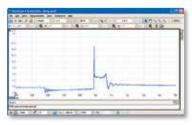
The 30 A precision current clamp allows you to measure from 5 mA up to 30 A without cutting, disconnecting or stripping the wire. It is ideal for measuring the currents in sensors and actuators across most modern passenger and commercial vehicles.

BNC 30 A Large jaw current clamp TA189 £279 \$460.35 €337.59





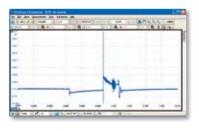
### SECONDARY IGNITION PICKUP



The secondary ignition pickup enables the PicoScope to measure high-tension (HT) voltages in secondary ignition circuits. It clips onto the HT lead with no need to disconnect the lead. The lead includes a ground clip that you must always connect to battery negative (earth) to prevent stray voltages from damaging the PicoScope.

Secondary ignition pickup MI074 £35 \$57.75 €42.35

### COIL-ON-PLUG (COP) PROBE



The Coil-on-Plug (COP) probe can pick up secondary ignition waveforms from most coil-on-plug or coil-per-cylinder systems where there are no exposed HT leads. The signal is displayed in PicoScope as kilovolts (kVs).

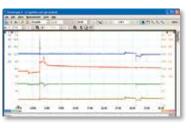
> Coil-on-plug probe only PP338 £95 \$156.75 €114.95

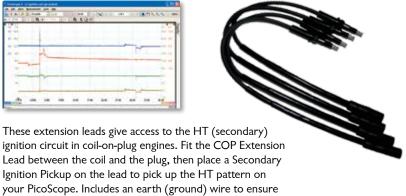
BNC to BNC cable with ground clip TA033

£15 \$24.75 €18.15

Coil-on-plug probe kit (probe and cable) PP357 £105 \$173.25 €127.05

### COIL-ON-PLUG (COP) PROBE EXTENSION LEADS



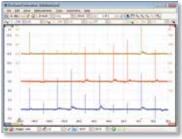


COP extension leads each TA037 £25 \$41.23 €30.24

COP extension leads x4 & Earth wire PP400 £95 \$156.73 €114.94

### **MIXMASTER**

safety.





The Mixmaster can display up to 12 secondary ignition signals in a parade display on your PicoScope. It is supplied with 4 secondary ignition pickup leads. Additional leads are available separately.

Mixmaster PP361 £225 \$371.25 €272.25 Extra pack of 4 short secondary ignition pickups PP339 £60 \$99 €72.60

### FLEXIBLE BACK-PINNING PROBES



Like TA008 back-pinning probes, these probes are designed for back-probing under the insulation of multi-plug terminals. The TA161 and TA162 have a flexible section to improve access to difficult areas. Each probe fits onto the 4mm plug of our BNC to 4mm test leads. Note that, unlike the probes in the TA008, the probe tips are not replaceable.

Flexible back-pinning Probe (black) TA161 £4 \$6.60 €4.84

Flexible back-pinning Probe (red) TA162 £4 \$6.60 €4.84



The back-pinning probes slide under the insulation of multi-plug terminals from behind the plug, allowing you to pick up signals without stripping wires or disconnecting plugs. Each probe fits onto the 4-mm plug of our BNC to 4mm test leads. A storage box containing spare pins and screws is included.

Back-pinning probes TA008 £29 \$47.85 €35.09

### **SMALL CROCODILE CLIPS**



These clips fit all our BNC-to-4-mm test leads. They are used to make contact with exposed wires and terminals. For larger terminals, use the TA005/TA006, TA157/TA158, or TA089/TA090.

Small croc clip (black) TA003 £3 \$4.95 €3.63
 Small croc clip (red) TA004 £3 \$4.95 €3.63

### **INSULATION PIERCING CLIPS**



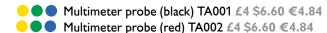
When there is no other way to get to a wire, clamp one of these on and a sharp pin pierces the insulation. Accepts 4mm plugs. Sold as a pair (1 red, 1 black).

Insulation piercing clips TA007 £35 \$57.75 €42.35

### **MULTIMETER PROBES**

These probes fit all our BNC-to-4-mm test leads. They are used to make contact with exposed wires and terminals.





### **SPRUNG HOOK PROBES**

These probes fit all our BNC-to-4-mm test leads. They allow you to make hands-free contact with exposed wires and terminals.



Sprung hook probe (black) TA089 £4 \$6.60 €4.84 Sprung hook probe (red) TA090 £4 \$6.60 €4.84

### **BATTERY CLIPS**

These plier-type clips are designed for connection to the vehicle battery terminals and fit all our BNC-to-4mm test leads.



Battery clip (red) TA157 £3 \$4.95 €3.63
 Battery clip (black) TA158 £3 \$4.95 €3.63

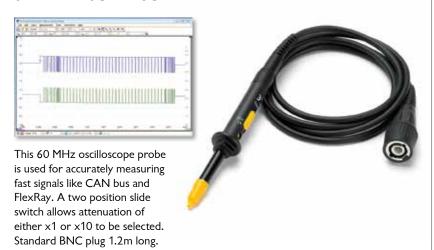
### LARGE DOLPHIN CLIPS

These clips fit all our BNC-to-4-mm test leads. They are used to make contact with exposed wires and terminals. For smaller terminals, use the TA003/TA004 or TA089/TA090.



- Large dolphin clip (black) TA005 £5 \$8.25 €6.05
- Large dolphin clip (red) TA006 £5 \$8.25 €6.05

### **60 MHZ OSCILLOSCOPE PROBE**



● ● 60 MHz oscilloscope probe MI007 £15 \$24.75 €18.15



4 MM SHROUDED TO UNSHROUDED ADAPTORS



Converts the shrouded 4-mm (banana) plug on our test leads to an unshrouded plug for use with the PP619 CAN Test Box or vehicle manufacturers' breakout boxes.

- ● 4mm shrouded to unshrouded adaptor (black) TA016 £2 \$3.30 €2.42
- ● 4mm shrouded to unshrouded adaptor (red) TA017 £2 \$3.30 €2.42

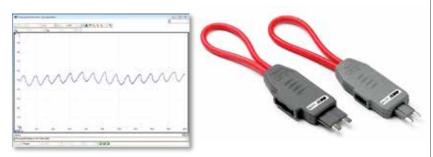
### **BNC PLUG TO 4 MM ADAPTOR**

This handy adapter converts a BNC input to two 4-mm sockets, enabling you to plug accessories equipped with 4-mm plugs into the PicoScope



BNC plug to 4mm adaptor MI078 £12 \$19.80 €14.52

### **FUSE EXTENSION LEADS**



For regular blade (ATO/ATC) and mini blade (ATM) fuses. Use with the Pico current probes for fuse-based diagnosis (see tutorials on picoauto.com) and measurements.

Fuse extension leads PP408 £35 \$57.75 €42.35

### JCASE FUSE EXTENSION LEAD

The TA168 JCASE fuse extension lead is designed to be used with standard and low profile JCASE fuses. JCASE is a cartridge style fuse with female terminal design, providing both increased time delay and low voltage drop to protect high current circuits & handle inrush currents.

Like our regular blade (ATO/ATC) and mini blade extension leads, use with the Pico current clamps for fuse-based diagnosis (see tutorials on picoauto.com) and measurements.

JCASE fuse extension lead **TA168** £20 \$33.00 €24.20



For standard 2-pin sensors and actuators. With 4mm plugs to connect to PicoScope test leads.

2-pin breakout lead TA012 £25 \$41.25 €30.25

### 10:1 ATTENUATOR



O ■ 10:1 Attenuator (each) TA197 £39 \$64.35 €47.19



### **MAXI FUSE**

The TA206 maxi fuse extension lead is designed to be used with standard maxi automotive fuses. The maxi fuse is a large blade-style fuse used to protect high-current circuits and handle large inrush currents on some vehicles.

Maxi fuse extension lead TA206 £40 \$66 €48



## 6-WAY UNIVERSAL BREAKOUT LEADS

No need to pierce insulation or back-pin connectors. Fully shrouded and insulated for safety. These breakout leads simply connect into the existing cable loom and enable voltage readings to be taken from numerous sensors in the engine compartment.



- Micro 0.6mm TA063 £49 \$80.85 €59.29
- Small 1.5mm TA024 £49 \$80.85 €59.29
- Medium 2.3mm TA025 £49 \$80.85 €59.29
- Large 2.8mm TA026 £49 \$80.85 €59.29 Breakout lead kit (S, M, L) PP327 £129 \$212.85 €156.09

### **USB CABLE**



1.8m USB 2 Cable MI106 £5 \$8.25 €6.05 4.5m USB 2 Cable MI121 £10 \$16.50 €12.10

### PREMIUM TEST LEADS



Use these to connect your PicoScope to crocodile clips, dolphin clips, multimeter probes and other accessories with 4 mm sockets. Available in either 3 m or 5 m long and fully shielded. (3 m length included in kits)

Premium test lead: BNC to 4mm BLUE

TA125 (3 m) £30 \$49.50 €36.30 TA199 (5 m) £40 \$66.00 €48.40

Premium test lead: BNC to 4mm RED

TA126 (3 m) £30 \$49.50 €36.30 TA200 (5 m) £40 \$66.00 €48.40

Premium test lead: BNC to 4mm GREEN

● ● ● TA127 (3 m) £30 \$49.50 €36.30 \*not in 2-channel standard kit

TA201 (5 m) £40 \$66.00 €48.40 Premium test lead: BNC to 4mm YELLOW

■ ■ TA128 (3 m) £30 \$49.50 €36.30 \*not in 2-channel standard kit

TA202 (5 m) £40 \$66.00 €48.40

Set of four premium test leads (one of each)

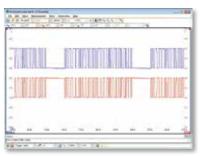
PP718 (3 m) £100 \$165 €121

PP941 (5 m) £140 \$231.00 €169.40

Premium test lead: BNC to 4mm BLACK TA203 (5 m) £40 \$66.00 €48.40

### CAN TEST BOX





The CAN Test Box allows you to connect your PicoScope oscilloscope to the 16 pin diagnostic connector enabling you to monitor any signals present, such as the CAN High and Low signals. The CAN Test Box terminal pin ports are accessible with standard 4 mm plugs.

The CAN Test Box uses numbered backlit LEDs which illuminate when signal data is present on the corresponding pin of the

Data Link Connector (subject to the vehicle manufacturer's specification). Pulsing LEDs indicate signals alternating high and low.

The CAN Test Box is fitted with a 2.5 metre (8.2 feet) cable so that you can work in a convenient location away from the diagnostic connector, and an additional pass-through connector so that you can hook up your scan tool at the same time as your scope. The box is powered by the diagnostic connector, so no batteries or mains adaptor are needed.

### CAN Test Box PP619 £149 \$245.85 €180.29

The LEDs indicate the following signals:

• LED 1/9 485A/485B

• LED 2/10 Bus+/Bus- lines J1850

• LED 3/8/12/13 Future upgrade

• LED 4 Chassis GND (Ground)

• LED 5 Signal GND

• LED 6/14 CAN High/Low of SAE J2284

LED 7/15 K/L Lines of ISO9141-2 and keyword 2000

• LED 11 Clock

• LED 16 Batt+ (Voltage supply)

### WPS500X PRESSURE TRANSDUCER



With the uncompromising resolution and accuracy of the WPS500X automotive pressure transducer, you can perform quick and accurate pressure analysis of many automotive systems.

- Accurately measure up to 500 psi / 34.5 bar
- Ultra-fast 100 µs response time
- Zoom function for enhanced analysis capabilities
- Rechargeable LiPo battery
- Integrated pressure relief / bleed-off valve
- Auto zeroing
- High noise immunity
- Temperature compensated

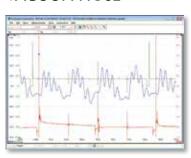
The WPS5000X features an extremely fast 100  $\mu$ s response rate from 0% to 90% of full scale and sensitivity down to about 0.07 psi (5 mbar). This provides you with an accurate representation of rapidly changing signals that span across a broad pressure range. The product includes:

WPS500X pressure transducer PP652 £465 \$767 €563 WPS500X pressure transducer kit PP939 £655 \$1080 €795

PP652 PACK CONTAINS: WPS500X Pressure Transducer, Carry case, USB cable TA081, BNC to BNC cable TA098

PP939 KIT CONTAINS: Carry case, WPS500X pressure transducer, USB cable A male to mini 5 pin 2m, Fuel hose for WPS500X, large Schrader Vacuum hose, Bleed hose, Exhaust adaptor, insulated cable BNC to insulated BNC 5m Fuel hose small Schrader, Universal vacuum adaptor, Foster 2 series quick coupler female to 1/8 NPT male, Standard compression hose, Adaptor M10 short reach, Adaptor M12 deep reach, Adaptor M14 short reach, Adaptor M14 deep reach

### **VACUUM HOSE**

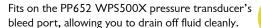




This hose allows you to connect to the intake manifold for vacuum testing.

Vacuum hose TA085 £12 \$19.80 €14.52

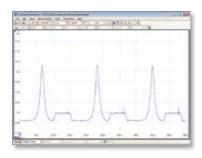
### **BLEED HOSE**



Bleed hose TA086 £10 \$16.50 €12.10



### HIGH STRENGTH COMPRESSION HOSES





This specially designed compression hose and adaptors allow the WPS500X to be used for high pressure tests such as cranking and running cylinder compression or fuel pressure testing. Use to investigate compression issues, blocked catalytic converters, restricted air intakes and many other problems such as cam timing and valve issues.

Standard compression hose TA212\* £39 \$64.35 €47.19 Adaptor M10 short reach TA213\* £19.50 \$32.18 €23.60 Adaptor M12 deep reach TA216\* £19.50 \$32.18 €23.60 Adaptor M14 short reach TA217\* £19.50 \$32.18 €23.60 Adaptor M14 deep reach TA218\* £19.50 \$32.18 €23.60

Adaptor M10 deep reach TA214 £19.50 \$32.18 €23.60

Adaptor M16 Ford Triton TA219 £19.50 \$32.18 €23.60

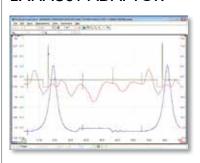
Adaptor M18 TA220 £19.50 \$32.18 €23.60

\*Included in the WPS500X kit





### **EXHAUST ADAPTOR**

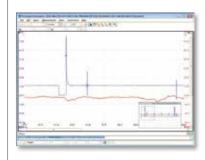




Insert this hose into the tailpipe to detect engine misfires.

Exhaust adaptor TA087 £20 \$33 €24.20

### **FUEL HOSES**





Enables connection to fuel systems with WPS500X. See vehicle manufacturers' data sheets.

Fuel hose with large Schrader valve TA083 £20 \$33 €24.20 Fuel hose with small Schrader valve TA117 £20 \$33 €24.20 Set of 2 fuel hoses PP794 £36 \$59.40 €43.56

### LARGE HOSE ADAPTOR



Can be used to connect between hoses of approximately 10 mm internal diameter and hoses of 10 mm, 6 mm and 4 mm internal diameter.

Large Hose Adaptor TA166 £12 \$19.80 €14.52

### **BRASS ADAPTOR**



To use with the TA085 vacuum hose as a step down into different size hoses.

**Brass Adaptor TA129** £12 \$19.80 €14.52

### **CARRY CASE**



The hard outer shell of these cases protects your kit from the inevitable knocks and bumps of workshop life.

Mit carry case PA084 £75 \$123.75 €90.75

PROTECTIVE RUBBER CASE

A rubber case to help protect your PicoScope 4223 or 4423 from accidental damage. The boot incorporates a hanging

bracket allowing you to hang your scope under the hood.

Rubber boot navy PP691 £20 \$33 €24.20 also available in black PP938 Replacement hanging bracket MI254 £2 \$3.30 €2.42



Use this S-hook to keep test leads tidy in the engine bay.



S-hook MI168 £2 \$3.30 €2.42



### TRAINING DVD

Designed to help you benefit from the extensive experience of Pico experts and users, troubleshooting problems in today's vehicles.





PicoScope Training Resources DVD DI090 £80 \$132 €96.80

### **INSPECTION LAMP**

10 + 1 High power LED work lamp with a forward/backward swivel and an integral magnetic base. The lamp has a rechargeable battery with a typical run time of 4.5 hours before recharging in the supplied charging cradle



Inspection Lamp TA225 £50 \$82.50 €60.50

### PICODIAGNOSTICS NVH KIT

- Includes accelerometer and microphone
- Full screen, high-resolution results are presented clearly and accurately
- No external memory required- saves directly to laptop or PC
- Record up to 500 seconds of data
- Automatic analysis
- Detects multiple vehicle vibrations
- Customer report function
- Plugs into your automotive PicoScope (sold separately)

The PicoDiagnostics NVH Kit is the cost–effective answer to the many NVH problems facing technicians today. Providing real-time diagnosis to the technician in the form of either: a bar graph, a frequency chart, a 3D frequency chart, RPM order or road speed view. The ability to start the recording before a road test, and play back the recording for analysis on your return, ensures that driver attention remains on the road. Saving the recordings couldn't be simpler: much like our other automotive software you simply save the file to your laptop's hard drive.

The PicoDiagnostics NVH kit makes use of the PicoScope 4000 Series Automotive oscilloscope, and comes complete with everything you need. You can be sure that your investment in the PicoDiagnostics NVH kit will benefit your business without the need for further spending. If you already have a PicoScope 4000 Series Automotive oscilloscope, you're halfway there.

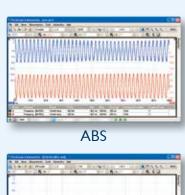
### NVH Kit PP858 £500 \$825 €605

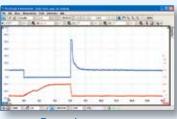
Your PicoDiagnostics NVH Kit contains the following items: MEMS Accelerometer
Mounting magnet for accelerometer
Microphone for NVH Kit
Single output NVH interface unit
Cable: insulated BNC to insulated BNC 5m
Sensor extension cable for NVH interface unit
Carry Case for NVH kit

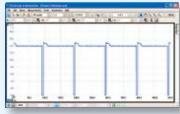








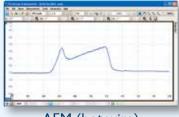


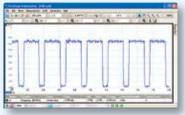


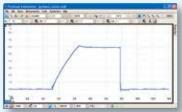
Diesel injectors

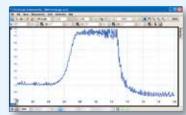
Petrol injectors

Carbon canister solenoid







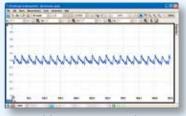


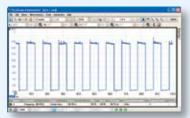
AFM (hot wire)

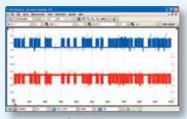
EGR valve

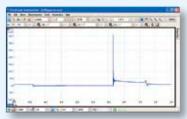
Primary ignition amps

MAP sensor (analog)









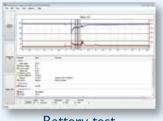
Alternator ripple

Idle speed control valve

**CAN** bus

Primary ignition volts







Battery test

Cylinder balance

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DO197-6 Errors and omissions excepted. All prices exclude VAT

