PicoDiagnostics® NVH Kit

Noise, Vibration and Harshness Analysis

The cost-effective tool for real-time NVH diagnosis

Includes accelerometer and microphone

Full screen, high–resolution results are presented clearly and accurately

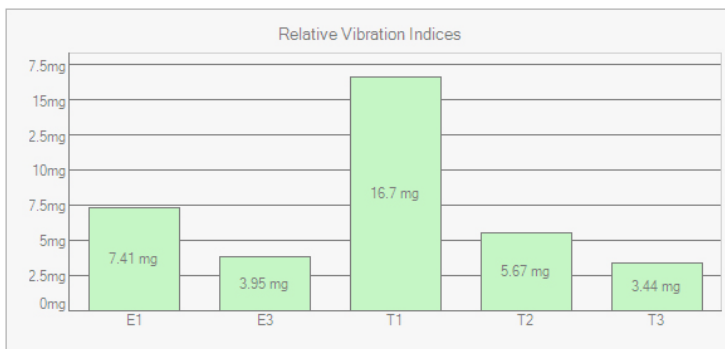No external memory required– saves directly to laptop or PC
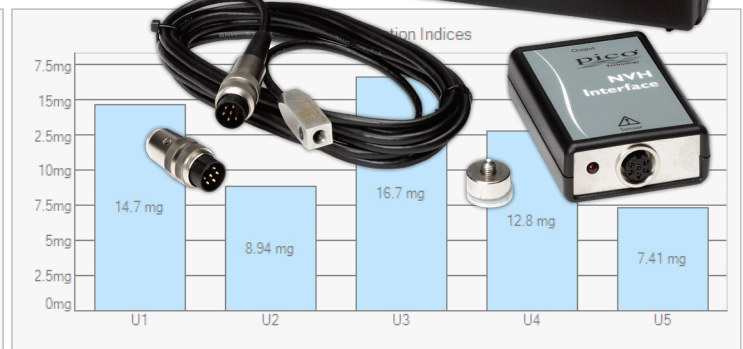
Record up to 500 seconds of data

Automatic analysis

Detects multiple vehicle vibrations

Customer report function

Plugs into your automotive PicoScope® (sold separately)

Relative Vibration Indices (left chart)

Index	Amplitude
E1	7.41 mg
E3	3.95 mg
T1	16.7 mg
T2	5.67 mg
T3	3.44 mg

Vibration Indices (right chart)

Index	Amplitude
U1	14.7 mg
U2	8.94 mg
U3	16.7 mg
U4	12.8 mg
U5	7.41 mg

Vibration	Frequency	Amplitude (g)
Engine Speed (1)	29.0 Hz	7.41 mg
Engine Speed (3)	87.1 Hz	3.95 mg
Tire Vibration (1)	9.8 Hz	16.7 mg
Tire Vibration (2)	20.1 Hz	5.67 mg
Tire Vibration (3)	35.2 Hz	3.44 mg

Vibration	Frequency	Amplitude (g)
U1	1.3 Hz	14.7 mg
U2	6.7 Hz	8.94 mg
U3	9.8 Hz	16.7 mg
U4	16.8 Hz	12.8 mg
U5	29.0 Hz	7.41 mg

Free technical support • Free updates
Software compatible with Windows XP, Windows Vista, Windows 7 and Windows 8

Overview

The PicoDiagnostics NVH Kit from Pico Technology 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.

Specifications

Weight (Interface/Vibration Sensor/Microphone)	120 g / 80 g / 20 g
Dimensions Sensor Interface (inc. BNCs) Microphone Magnet (inc. fitted grub screw)	105 mm x 65 mm x 27 mm 43 mm x ø17 mm 12 mm x ø18 mm
Sensor extension lead length	3 m
Battery (Lithium Primary Cell)	CR123(A) 3 V (user replaceable)
Battery life (Shelf/Vibration mode/ Microphone mode)	10 years / 6 months / 2 months
Maximum measurable acceleration	±5 g
Vibration frequency range (3 dB)	DC to 350 Hz
Shock survivability (accelerometer head)	10,000 g
Temperature range (operating) accelerometer head	–40 °C to 85 °C
Thread mounting (accelerometer)	¼" x 28 UNF
EMC approvals	CE: Meets EN61326-1:2006

PicoDiagnostics software

Our PicoDiagnostics software is included as part of the kit, and provides advanced analysis options. The software runs on your existing PC or laptop. The full colour and high–resolution screen of your PC or laptop increases the ease of viewing test results, while the ability to play back a detected fault at a later date allows the comparison of before and after a repair.

What's in the PicoDiagnostics NVH Kit

A BNC cable connects the interface box to an Automotive PicoScope*. A USB cable connects your PicoScope to PC or laptop to run the PicoDiagnostics software.

Your PicoDiagnostics NVH Kit contains the following items:

- Accelerometer
- Microphone
- Single channel NVH Interface
- BNC cable
- 3 m sensor extension lead
- Quick Start Guide

*Sold separately

Ordering information

ORDER CODE	DESCRIPTION
PP858	PicoDiagnostics NVH Kit

*Prices are correct at the time of publication. Please contact Pico Technology for the latest prices before ordering.

Pico Technology
James House
Colmworth Business Park
ST. NEOTS
PE19 8YP
United Kingdom

详细资料？请通过sales@hkaco.com联系我们。

广州：400 999 3848
上海：021-31215998
北京：010-57815068

HongKe 虹科
www.hkaco.com

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