

XENTRY Scope - Product Information

GSP/ORE Mercedes-Benz AG Stuttgart, December 2021





Overview



Product advantages

3.

Product presentation: Hardware | Software



Scope of supply & available accessories



Training & support



Mercedes-Benz

Overview

XENTRY Scope replaces the previous XENTRY measurement technology HMS 990 USB.



NEW

- Simple and intuitive operation.
- Extended basic package at a reduced price: The 100 A current clamp is included in the basic package.
- Four fast channels with visual display.
- Previous measurement technology functions will continue to be supported and further measurement options will be added.
 - Highlight: Noise, Vibration and Harshness measurements*: NVH)

* Additional hardware required, can be ordered as accessories.



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Mercedes-Benz

Overview of advantages of new XENTRY Scope measurement technology.



XENTRY Scope measurement technology in combination with XENTRY Diagnosis Kit 3 | Kit 4

Measurements

- Voltage measurement of sensors
- Quiescent current measurement
- FlexRay measurements*
- NVH measurements*
- Temperature measurements*
- Pressure measurements*

*Accessories required

Compatibility

- Usable in cars, vans, buses and trucks up to 200 volts
- XENTRY Scope measurement technology is compatible with the XENTRY Diagnosis Kit 3 | Kit 4 diagnostic systems

Wide range of accessories

Further accessories can be ordered in addition to the standard package, e.g:

- XENTRY Scope NVH for noise and vibration measurements
- 2000 A current clamp
- Pressure sensor
- Coil and signal sensor
- Temperature sensor

Software

- Simple operation
- Optimized for touchscreen operation
- Automatic detection of sensors and adapters
- Preset measurements with pass images
- Regular updates through XENTRY Diagnosis Kit 3 | Kit 4 release updates



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Overview of hardware I: XENTRY Scope connections and LED displays.



Main features

- Compact design.
- Power is supplied via the USB connection.
- Four channels can be actuated individually.
- The housing is shock-proof due to its rubber lining.
- Connections are protected by rubber caps.



Status display directly on the measurement technology

- Activation of LEDs corresponding to color of inserted cable.
- Additional activation of LED according to color of channel within the software.

Overview of hardware II: The technical details of XENTRY Scope.



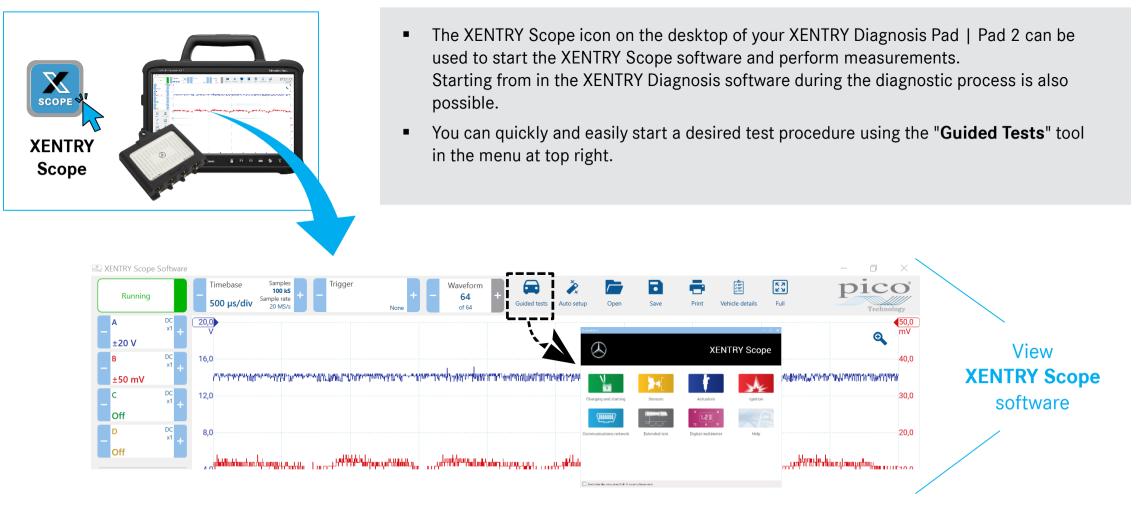
Technical details

- Analog bandwidth (-3dB)
- Vertical resolution
- Input type
- Input properties
- Input sensitivity
- Input range
- Accuracy (DC) 10kHz
- Overvoltage protection
- Scan rate (real time)

20MHz

- 12 bit (16 bit extended mode) Floating (ungrounded) Single-End, BNC 1 M Ω ±1%, simultaneously with < 20 pF 10 mV/DIV up to 40 V/DIV ±50 mV to ±200 V in 12 ranges ± 1% fs ± 200 µV ± 1 LSB ± 500 V transient
- 1 channel (400MS/s), 4 channels (100MS/s)

Overview of software I: The known pass images for the most frequent measurements can be found under "Guided Tests".



Overview of software II: View of the XENTRY Scope software in detail.





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The standard scope of supply also contains the accessories for the most common measurements. It even comes with a 100 A current clamp!



SCOPE OF SUPPLY*

- XENTRY Scope hardware
- Connection lines
- USB cable
- 100 A current clamp

- 4mm jacketed to nonjacketed adapter
- Battery clamps
- Storage case

*The XENTRY Scope software is already installed on your XENTRY Diagnosis Pad | Pad 2.

ORDERING OPTION

You can order the XENTRY Scope measurement technology through your usual ordering channel.

Scope of supply & available accessories

You can optionally order additional accessories.



100 A current clamp Current clamp up to max. 100 A.



2000 A current clamp Current clamp up to max. 2000 A.



Pressure sensor -916mbar to +12.5 bar, high speed.



Temperature sensor

The measuring range of the probe is -40 $^{\circ}$ C to +125 $^{\circ}$ C.



High-frequency testing and measuring range probe For use with higher voltage signals up to 500 volts and for the measurement of FlexRay signals.



Measuring line for resistance measurement Test line for resistance measurement.



Coil and signal sensor

You can use the coil and signal sensor to check ignition coils and electric valves.



Secondary ignition pickup

A capacitive pickup for measuring the secondary ignition voltage at the ignition cable.



Small parts set (clamps & adapters)

Consisting of battery clamps, small alligator clips and 4 mm adapters.



NVH kit (Noise, Vibration and Harshness) For noise and vibration measurements.



Optical balancing set Aid for the balancing of rotating components.



The accessories for the XENTRY Scope measurement technology can be obtained via your usual ordering channel.

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XENTRY Scope NVH, which is available as an accessory, can also be used for noise and vibration measurements.



NVH in combination with XENTRY Diagnosis Kit 3 | Kit 4 & XENTRY Scope

Main features

NVH: Noise, Vibration und Harshness = Undesired noise.

- Customer complaints involving noise and vibrations are analyzed with the aid of the NVH accessories.
- XENTRY Scope NVH consisting of hardware and software.
- NVH can only be used in combination with XENTRY Diagnosis Kit 3 | Kit 4 & XENTRY Scope.

NVH provides real-time diagnostics

in the form of:

- vehicle speed,
- rpm sequence,
- bar graph,
- vibration diagram
- and time range.



View of NVH software: Vibration diagram

Scope of supply & available accessories

Overview: XENTRY Scope NVH accessories package. The NVH software is already integrated into the XENTRY Scope software.



SCOPE OF SUPPLY

- 2 NVH interfaces with three outputs each
- 4 connecting cables (red, green, blue, yellow)
- 2 microphones with cable

- 2 XYZ sensors
- 2 holding magnets for the XYZ sensors
- 1 case

ORDERING OPTION

You can order XENTRY Scope NVH through your usual ordering channel.

 XENTRY Scope NVH can only be used in combination with XENTRY Scope and XENTRY Diagnosis Kit 3 | Kit 4!



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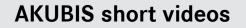
Training & support

Our extensive training range helps you to profit optimally from the many measuring possibilities provided by XENTRY Scope.

GT APP



- Learning content
 - Downloads
 - Forum for discussions



- Scope of supply
- Measurement possibilities/ software operation
 - DMM: Quiescent current measurement, voltage and resistance measurement
 - Camshaft, crankshaft
 - CAN measurement
 - NVH

F2F training



XENTRY Scope and **NVH** Learning contents are integrated into existing diagnosis training courses.

TRAINING CONCEPT FOR XENTRY SCOPE

Along with the training course options, we also offer you **accompanying media** for support in the form of Help Cards and brochures.

Further helpful information material on XENTRY Scope is also available.

XENTRY PORTAL

- General product information about XENTRY Scope.
- Documents & videos for download.
 - https://xentry.daimler.com
 Path: XENTRY Portal > Diagnosis & Telematics > XENTRY Scope



XENTRY SCOPE SOFTWARE

- Help in the software itself in the form of a screen capture.
 - XENTRY Scope software: Guided tests > Help



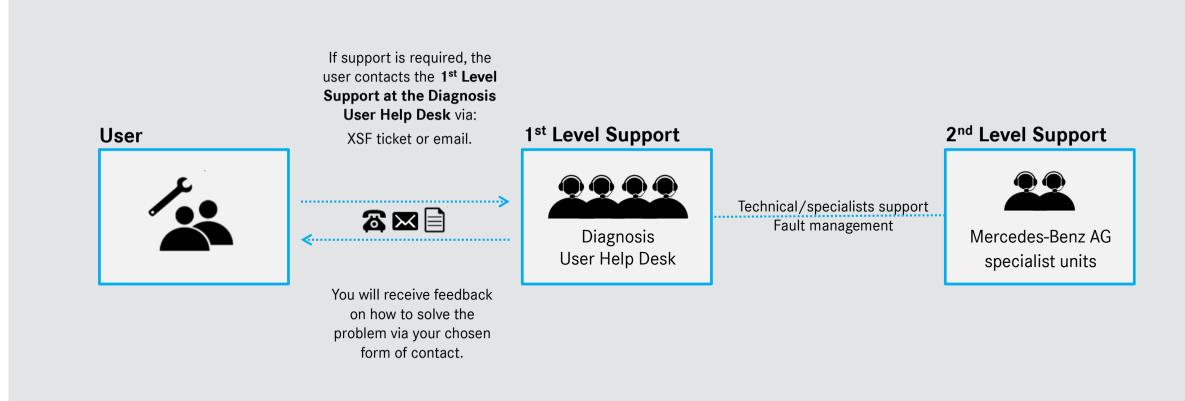


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Training & support

In the event of a fault, you will receive support as usual via the Diagnosis User Help Desk.

SUPPORT CONCEPT FOR XENTRY SCOPE



GSP

Committed to Win. Together.