Oscilloscope

OX 9000 SERIES

isolated channels

4-in-1 Instrument

Oscilloscope

Multimeter

Analyzer

Logger with the recorded files directly viewable on screen

Safety

 All channels isolated from one another and from the earth, 600V CAT III

Ergonomic

Modern, high tech design which is simple, compact and practical

Optimization

of all tools; communication, storage and operation



Our products are backed by over 125 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.



ERGONOMICS

Designed to simplify use with one button access to most functions

In a housing tailor-made to be as compact as possible, the mechanical design makes it possible to integrate the hardware components in a small size with the keypad benefits from new technology developed in the automotive industry.

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CHANNEL AND PARAMETER IDENTIFICATION

Each channel and related parameters are identified with identical color against a black background for simpler, quicker viewing.

EASY ACCESS VIA TOUCH SCREEN

Intuitive icons are provided to facilitate their use, even with gloves on.

ADJUSTABLE STRAP

This helps to optimize operation of the oscilloscope in your hand or on your shoulder when working in the field.

A stand is also available to vary the orientation of the oscilloscope when it is placed on a bench. The oscilloscope can be safely left unattended using the Kensington locking system.

NEW KEYPAD DESIGN FOR OPTIMUM USER COMFORT

Configuration and measurement displays are simple to access from the front panel in one of these 5 specific areas: Utilities (brightness, full screen, screenshot), Measurements, Vertical, Horizontal, Trigger.

LINE POWER OR LI-ION BATTERY

Port on left side.

SCOPIX IV OX 9304 A ISOLATED CHANNEL OSCILLOSCOPE BOO MH2 - 25 GS/4 - 12 Bits TREO OV BW Inne No BW Inne No

PRODUCT INCLUDES

Scope in carrying case with shoulder strap, set of two 5 ft color-coded leads, alligator clips and test probes, 10 ft USB cable, µSD memory card, 1-PROBIX Banana Plug Adapter, 1 styli pen, LI-ION 5.8 Ah battery pack, PA40W-2 power adapter with 110V power cord. Additional accessories may be model dependent.



APPLICATIONS

Ideal for electronic and industrial maintenance

IP54

Housing protected against dust and water spray.

7" WVGA WIDE COLOR TFT TOUCH SCREEN

Makes it easy to view and read the measurements clearly. It also provides a screen resolution of 800×480 dpi with manual or automatic brightness.

TOUCH-SCREEN STYLUS STORAGE

Among the essential tools available, the sylus is equipped with a hook for the addition of a cord to make it captive, as required. One end is slightly flattened to prevent rolling when placed on a table or bench.

AUTOSET BUTTON

Quickly and effortlessly adjusts the horizontal and vertical; sensitivity and scales to provide the best resolution.

DIRECT SETTING AND SET-UP BUTTONS

COMMUNICATION INTERFACES

These are isolated from one another and from the measurement channels. A dedicated compartment on the right side protected by a flexible cover contains all the different communication interface ports:

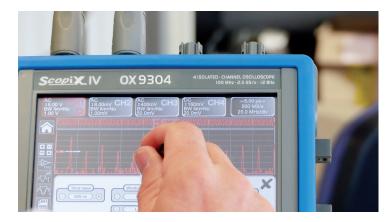
- USB host for communication with a PC
- wired RJ45 or WiFi for communication with a PC or printing via a network printer
- µSD card for data storage with quick transfer and for upgrading of the instrument's firmware

DIRECT ACCESS ZOOM BUTTON

Channels are isolated.

Electronic maintenance

The OX 9304 model is ideal for electronics with its 300 MHz bandwidth, 4 x 600V CAT III isolated channels, advanced trigger functions, integrated FFT function, complex mathematical calculations on the curves, automatic measurements on 4 channels and the built-in WEB server.



Industrial maintenance

The OX 9304's large 7-inch screen, 300 MHz bandwidth, 4 x 600V CAT III isolated channels and Harmonic Analyzer and Multimeter modes make it ideal for industrial maintenance applications.



CATALOG NO.	DESCRIPTION
2150.31	Hand-Held Oscilloscope Model OX 9062 IV 60MHz
2150.32	Hand-Held Oscilloscope Model OX 9102 IV 100MHz
	Hand-Held Oscilloscope Model OX 9104 IV 100MHz
2150.34	Hand-Held Oscilloscope Model OX 9304 IV 300MHz



ACCESSORIES

Accessories automatically recognized when connected to the oscilloscope

The plug and play accessories included are automatically recognized when connected to the oscilloscope. They provide quick and easy implementation with total user safety. Additionally, accessories equipped with BNC connectors or standard banana plugs can also be connected when using the supplied adapter.

Interchangeable ID Markers can be used on the accessories plugged into a given channel to identify them with the trace color displayed on the screen.

Additionally the 10:1 probe accessory is equipped with 3 adjustable buttons to optimize its measurement capabilities.

Identification and Safety Management

Once one of the provided standard accessories has been plugged in, it is automatically identified and its characteristics and calibration references are retrieved by the OX9000 Series Oscilloscope. All accessories are directly powered by the oscilloscope.

Channel Configuration and Sensor Management

Sensor coefficients scales and units of measure are managed automatically, as is channel configuration. Control buttons on the probes can be used to modify the settings of the channels to which they are connected. They also offer functions accessible on the oscilloscope's front panel.



PROBE FUNCTIONS

voltage measurements

- by probe with different bandwidths and attenuation
- by BNC or banana jack connection

current measurements

- by AC or AC/DC current clamp
- directly through banana jack connections

temperature measurements

- using a K thermocouple sensor
- using a PT100 RTD sensor



Accessories & Replacements

Cat #2124.73 - PROBIX PRHX1 10:1 Probe, 250MHz 600V CAT III Cat #2124.77 - PROBIX Current Probe, 20mA-20A 1MHz-3dB

Cat #5000.17 - Set of 5 styli pens



COMMUNICATION

For added equipment and operator safety all communication from the instrument is totally isolated from the measurement process

Choice of communication interfaces—you can choose the type of communication to fit your requirements. Several communication choices are built into the OX9000 Series oscilloscope.

- Wired Ethernet LAN network with integrated DHCP server for easy connection to your network
- WiFi® radio link to communicate with a PC, tablet or smartphone using the dedicated interfaces
- USB for interfacing with the PC; record, recall or load configurations
- µSD with >8 GB, default storage giving priority over the 1 GB internal memory

File Management

Any of the signal traces can be displayed instantaneously as the reference by pressing a single button which will obtain a comparison an immediate measurements of the deviation of ongoing measurements.

Backups are available in various formats for direct export into a standard application such as Windows base spreadsheets or word processors.

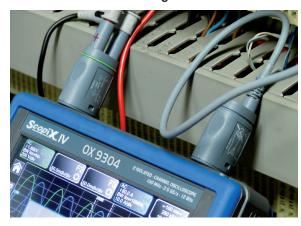
It is easy to take screenshots directly from the front panel and save them in a .PNG format, print documents on a network printer and transfer or delete files in the file manager.

Storage capability for each mode		Type of file				
	setup (cfg)	traces (trc)	math (fct)	meas (bxt)	screen shot (png)	
Oscilloscope mode	✓	✓	✓		✓	
Multimeter mode	✓				✓	
Logger mode	✓				✓	
Harmonics mode	√			✓	✓	

Data Processing

- Use the oscilloscope screen to recall screenshots and stored traces for direct review on screen
- On your PC, use the ScopeNet application in your web browser with either the USB or Ethernet connection for remote control and programming with SCPI commands

Electrical Troubleshooting



Education



In the laboratory





4 MODES: Oscilloscope, Multimeter, Analyzer, Recorder

Improved functions and performance levels of the OX9000 Series

- wider bandwidth up to 300 MHz
- new triggering and recording options
- increased storage capacity, and more!

- 12 bit resolution
- 2.5 GS/sec

OSCILLOSCOPE:

Trigger Functions

An oscilloscope with complex trigger functions records what is necessary, while capturing all the faults The OX9000 models offer advanced triggers which complement the main edge trigger options: pulse width, counting and delay.

- The Delay mode enables you to observe any event with maximum resolution, even if it occurs a long time after effective triggering, or on two different channels.
- The Counting mode enables you to count the events before triggering, so that you can check the content of digital frames. For example, the trigger can be linked to a second "auxiliary" signal which is different from the "main" signal.

Automatic Measurements

Comprehensive automatic measurements are displayed with cursors for precise analysis. The automatic measurements window displays all 20 parameters at the touch of a button for 4 channels. Two horizontal and vertical cursors can be used to view the section of the signal where the first automatic measurement was performed.

A specific measurement area can then be selected by framing it with manual cursors for more accurate, reliable results.

Direct comparison of two traces can be performed by checking the "reference memory deviation" box, so that these 20 signal parameters are displayed in terms of deviations.



PRACTICAL!

VIEW ALL 4 CHANNEL

waveform + FFT waveform + XY

The Math Functions

In oscilloscope mode, the MATH functions (1, 2, 3 and 4) allow you to define a mathematical function for each of the traces, along with vertical scaling and labeling of the actual physical unit.

The mathematical editor is capable of displaying 4 calculated traces on which all the automatic or cursor measurements remain available. This means it is possible to examine the waveforms, such as the power $(V \times I)$, and perform all the associated measurements.

A large number of operators are available, including +, -, x and /, as well as more complex operators such as sine, cosine, exponential, logarithm, square root, etc. opening the way for specific applications.

Real-time Fast Fourier Transform (FFT) for frequency decomposition of your signals on 4 channels

The FFT is used to calculate, from 2500 points upwards, the discrete representation of a signal in the frequency domain from its representation in the time domain. It is often particularly useful for arriving at an effective diagnosis during qualitative analysis of the signals:

- measurement of the individual harmonics or distortion of a signal
- analysis of a pulse response
- search for the source of noise in the logic circuits

Several weighting windows are available, as well as 2 representation modes: linear or logarithmic (scale in dB). The 2 cursors can then be used for precise measurements of the frequency lines, the levels and the attenuations, taking advantage of the 80 dB dynamic range allowed by the 12-bit / 2.5 GS/s conversion.

The autoset button makes it easier to obtain an optimum spectral representation to which a graphical zoom can be applied to analyze all the details of the spectrum.



4 MODES: Oscilloscope, Multimeter, Analyzer, Recorder

The four modes are directly accessed at the press of a button or touch screen icon providing instant access the mode you need

Harmonic Analysis

Harmonic analysis is performed on all 4 channels up to the 63rd order to comply with the requirements of the EN 50160 standard (THD on harmonics up to the 50th), with a fundamental frequency between 40 and 450 Hz.

It is possible to preselect the frequency of the fundamental for the standards (50 Hz, 60 Hz and 400 Hz).

This function helps to improve analytical performance and, above all, measurement when the level of a harmonic order is greater than the fundamental.

It is possible to view the harmonic analyses of two or four channels simultaneously: RMS level, harmonic distortion, harmonic frequency, phase of the harmonic in relation to the fundamental.

Multimeter

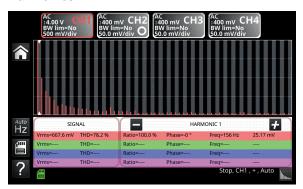
By simply selecting the dedicated icons, you can gain access to the multimeter mode without changing the measurement input channels. The OX9000 models offer an 8,000-count TRMS digital multimeter with two or four channels which can perform the following measurements:

- amplitude (DC or AC voltage and current, power, temperature, etc.)
- resistance, continuity, capacitance
- component diode tests

Temperature is measured using the Pt 100 and Pt 1000 sensors or K thermocouples via the dedicated PROBIX sensors. The power measurements are proposed as follows with choice of the configuration:

- single-phase power
- three-phase power on balanced network without neutral
- three-phase power on balanced network with neutral
- 3-wire three-phase power (2-wattmeters method)

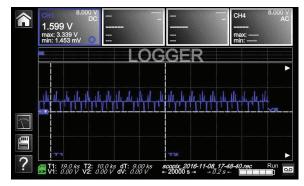
Harmonics



4 Simultaneous Channels



Measurement between H and V cursors: T1, T2, Dt, 1/Dt, V1, V2, dV, Ph



Recorder/logger

This is the mode for recording the trends in Multimeter mode. A genuine fast digital logger is provided inside the instrument to monitor the variations of physical or mechanical phenomena over time. It offers acquisition intervals as short as 40µs between 2 measurements and recording can cover any period from 2 seconds to one month.



Vertical deflection 60 MHz 100 MHz 1	TECHNICAL SPECIFICATIONS	OX 9062	OX 9102	OX 9104	OX 9304			
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Input importance 1 Mod ± 0.5%, approx. 12 pf	Number of channels	2 isolated	<u> </u>		ed channels			
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Digital storage Maximum sampling rate 2.5 GS/s in one-shot mode on each channel (100 GS/s max. in ETS mode) Vertical resolution 12 bits (vertical resolution 0.025 %) Memory depth 100 kpts per channel and file viewer in the manager User storage Internal = 1 GB to store the files: trace, text, configuration, math functions, System memory: pdf print files, png image files file management + high-capacity removable pis-D-card: 50 E GB, SDHC 4-32 CB and SDKC > 32 CB GB GLITCH mode Duration ≤ 2 ns - 500,000 Min/Max pairs Display modes Envelope, vector, accumulation-, averaging (factors 2 to 64) – XY (vector) and Y(f)=FFT Other functions AUTOSET Complete in under 5 s, with recognition of the channels – Frequency > 30 Hz FFT analyzer & MATH functions 2 2 or 3 cursors: simultaneous Y and T with AUTO measurement. T1, 12, Dt, 10t, 680, Ph Automatic measurements Simultaneously with waveform, 20 automatic measurements per channel and on the 4 channels simultaneously with scroll MULTIMETER MOIE 6 General specifications 2 or 4 channels – 8,000 cts min/max/frequency/relative – TRIMS – Time/date-stamped graphical recording in logger mode AC, DC and AC + DC voltages 6 00 mV to 600 VRMS, 800 mV to 800 VDC – VDC accuracy +/- (0.5 % + 25 D) – 200 kHz bandwidth Resistance 8 0 Ω to 32 MΩ – accuracy 0.5%H + 25D – Quick continuity test < 10 ms Other measurements Temperature (HXXOSS – STC, HXXOSS – Fito) 5 ms / Fito 5 ms / Frequency 200 kHz / Diode test 3.3 V Single and three-phase power Active, Reactive and Apparent power values plus Power Factor simultaneously with the U & I measurements FRARNONIC ANALYSER MODE Multi-channel analysis 2 or 4 (depending on model), 63 orders, fundamental frequency 40 to 450 Hz in auto or manual mode Simultaneous measurements Total Vrms, THD and selected order (% fundamental, phase, frequency, Vrms) LOGGER MODE Communication – software link Ethernet (100 base T), WiFi-USB (device, 12 Mbs) – "ScopeNet" application software for PC Communication – software link Ether	' *	AC, L		•	15 S			
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AC, DC and AC + DC voltages 600 mV to 600 VRMS, 800 mV to 800 VDC - VDC accuracy +/- (0.5 % + 25 D) - 200 kHz bandwidth Resistance 80 Ω to 32 MΩ - accuracy 0.5%R+ 25D - Quick continuity test < 10 ms Other measurements Temperature (HX0035 = KTC, HX0036 = Pt100) / Capacitance 5nF to 5mF / Frequency 200 kHz / Diode test 3.3 V Single and three-phase power Active, Reactive and Apparent power values plus Power Factor simultaneously with the U & I measurements HARMONIC ANALYSER MODE Multi-channel analysis 2 or 4 (depending on model), 63 orders, fundamental frequency 40 to 450 Hz in auto or manual mode Simultaneous measurements Total Vrms, THD and selected order (% fundamental, phase, frequency, Vrms) LOGGER MODE Acquisition Duration: 20,000 s - Interval: 0.2 s - Files: 100,000 measurements GENERAL SPECIFICATIONS Configuration memories Not limited according to device - variable file sizes Printing Network printing via Ethernet/Wifi in .png format PC communication - software link Ethernet (100 baseT), WiFi-USB (device, 12 Mbs) - "ScopeNet" application software for PC Software PC: Ethernet and USB, ScopeNet (remote control, data recovery, cursors and automatic measurements) Android tablet - ScopeAdmin Fleet Administration utility Mains power supply Acquiry 2-hour fast charger, universal 98-264 V / 50/60 Hz) Safety / EMC Safety as per IEC 61010-2-30, 2010 - 600V CAT III / 1000V CAT II - EMC as per EN61326-1, 2010								
Resistance $80 \Omega to 32 M\Omega - accuracy 0.5%R+ 25D - Quick continuity test < 10 ms$ Other measurements Temperature (HX0035 = KTC, HX0036 = Pt100) / Capacitance 5nF to 5mF / Frequency 200 kHz / Diode test 3.3 V Single and three-phase power Active, Reactive and Apparent power values plus Power Factor simultaneously with the U & I measurements HARMONIC ANALYSER MODE Multi-channel analysis 2 or 4 (depending on model), 63 orders, fundamental frequency 40 to 450 Hz in auto or manual mode Simultaneous measurements Total Vrms, THD and selected order (% fundamental, phase, frequency, Vrms) LOGGER MODE Acquisition Duration: 20,000 s - Interval: 0.2 s - Files: 100,000 measurements GENERAL SPECIFICATIONS Configuration memories Not limited according to device - variable file sizes Printing Network printing via Ethernet/Wiff in .png format PC communication - software link Ethernet (100 base1), WiFi-USB (device, 12 Mbs) - "ScopeNett" application software for PC Software PC: Ethernet and USB, ScopeNet (remote control, data recovery, cursors and automatic measurements) Android tablet - ScopeAdmin Fleet Administration utility Mains power supply Adapter / 2-hour fast charger, universal 98-264 V / 50/60 Hz) Safety / EMC Safety as per IEC 61010-2-30, 2010 - 600V CAT III / 1000V CAT III - EMC as per EN61326-1, 2010	<u>'</u>	· ·	<u> </u>					
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	Mains power supply	Li-lon rechargea						
Mechanical specifications 292.5 x 210.6 x 66.2 mm – 2.1 kg with batteries – IP54 protection	Safety / EMC	Safety as per I						
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