





OSCILLOSCOPE











MODELS OX 9062, OX 9102, OX 9104 & OX 9304

Ergonomic, hand-held oscilloscope with 300 MHz bandwidth and 4 models: oscilloscope, multimeter, analyzer and recorder







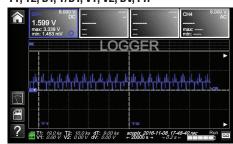




MULTIMETER - DISPLAYS UP TO 4 CHANNELS SIMULTANEOUSLY



MEASUREMENT BETWEEN H AND V CURSORS: T1, T2, DT, 1/DT, V1, V2, DV, PH



FEATURES

- Wider bandwidth up to 300 MHz (model dependent)
- · Advanced triggering and recording options
- Increased storage capacity, and more!
- 12-bit resolution
- 2.5 GS/s

PRODUCT INCLUDES

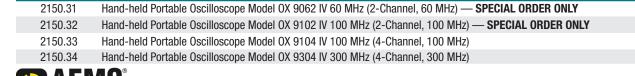
Scope in carrying case with shoulder strap, set of (2) 5 ft color-coded leads, alligator clips and test probes (4 mm diameter), 10 ft USB cable, µSD memory card, 1-PROBIX Banana Plug (4 mm) adapter, (1) stylus pen, LI-ION 5.8 A·h battery pack, PA40W-2 power adapter with 110 V power cord. Additional accessories (model dependent).



ACCESSORIES/REPLACEMENTS

CAT. #5000.17 Set of 5 stylus pens





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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.

ISOLATED CHANNELS

Each channel is isolated from each other and from ground (earth) rated at 600 V CAT III.

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.

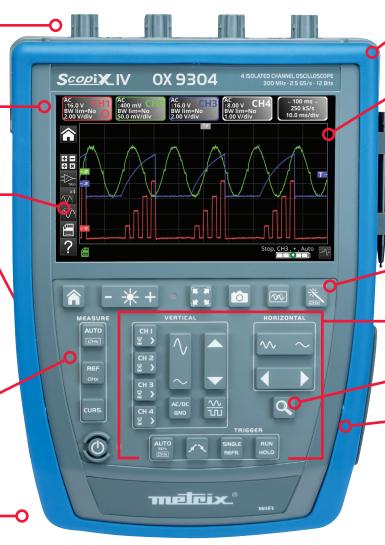
NEW KEYPAD DESIGN FOR OPTIMUM USER COMFORT

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 AND LI-ION BATTERY CHARGING PORT

Port on left side.









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APPLICATIONS

Ideal for electronic and industrial maintenance

IP54

Housing protected against dust and water spray.

7-INCH WVGA WIDE COLOR TFT TOUCH SCREEN

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

TOUCH-SCREEN STYLUS STORAGE

Among the essential tools available, the stylus 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 SETUP BUTTONS

DIRECT ACCESS ZOOM BUTTON

Activates/Deactivates the horizontal Zoom function.

COMMUNICATION INTERFACES

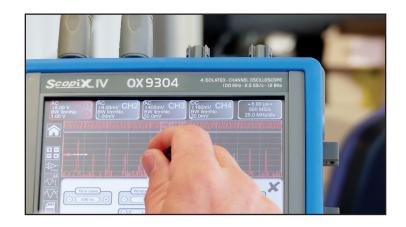
These are isolated from one another and from the measurement channels. A dedicated compartment on the right side protected by a flexible cover contains all the different communication interface ports:

- · USB host for communication with a PC
- Wired RJ45 or Wi-Fi 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



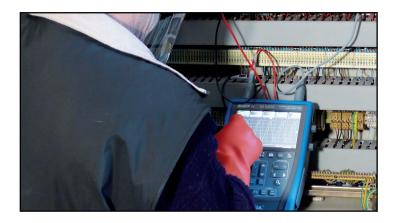
ELECTRONIC MAINTENANCE

The OX 9304 model is ideal for electronics with its 300 MHz bandwidth, (4) 600 V 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, Harmonic Analyzer and Multimeter modes make it ideal for industrial maintenance applications.





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TECHNICAL SPECIFICATIONS	OX 9062	OX 9102	OX 9104	0X 9304
LOTHIOAL OF EOII TOATTONS	OX 3002	HUMAN-MACHINE INTERFACE	OX 3104	- OX 3304
ype of Display	7 in \\\\/G\\ co		(1) dni TED hacklighting (adjuste	ahle standhy mode)
Different Display Mode	7 in WVGA color TFT LCD touch screen, (800 x 480) dpi, LED backlighting (adjustable standby mode) 2500 real acquisition points on screen - vectors with interpolation			
Display of Curves on Screen	4 curves, 4 references, split screen and full screen modes			
Screen Commands	, , , ,			
Choice of Language	Touch screen / icons and graphical commands / customizable channel colors 15 complete languages, menus and contextual help			
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		Vertical Deflection		
	60 MHz		MHz	300 MHz
Bandwidth	(15, 1.5) MHz or 5 kHz bandwidth limiter			JUU IVII IZ
Number of Channels	2 isolated channels 4 isolated channels			
	Z ISOIAL			aldu Gilalilidis
Input Impedance	1 M Ω ± 0.5 %, approximately 12 pF			
Maximum Input Voltage	600 V CAT III (1000 V per Probix), from (50 to 400) Hz, Probix safety connectors			
Vertical Sensitivity	16 ranges from 2.5 mV to 200 V / div and up to 156 μV / div in vertical zoom mode (12-bit converter), Accuracy ± 2 %			
Vertical Zoom	One click Winzoom mode (12-bit converter and direct graphical zoom on screen), x 16 max.			
Probe Factor (non-Probix)		1 / 10 / 100 / 1000 or any scaling	g – definition of measurement u	nit
	, - ·	Horizontal Deflection		400
Sweep Speed	35 ranges from 1 ns / div to 200 s / div., accuracy ± [50 ppm + 500 ps] (Roll mode from 100 ms to 200 s / div)			
Horizontal Zoom	One click Winzoor	m system (direct graphical zoom on	screen) x 1 to x 5 or x 100 (stora	age 100 kpts / channel)
		Triggering		
Mode		On all the channels: automatic, tr	iggered, one-shot, auto level 50	%
Туре	Edge, pulse width (16 ns to 20 s), Delay (48 ns to 20 s), Counting (3 to 16,384) events. Continuous adjustment of trigger position.			
Coupling	AC, DC GND, HFR, LFR, noise, Level and Hold-off adjustable from 64 ns to 15 s			
Sensitivity	≤ 1.2 division p-p up to 300 MHz			
		Digital Storage		
Maximum Sampling Rate	2	.5 GS / s in one-shot mode on each	channel (100 GS / s max. in ETS	S mode)
Vertical Resolution	12 bits (vertical resolution 0.025 %)			
Memory Depth	100 kpts per channel and file viewer in the manager			
	Internal — 1 CD	to store the files: trace, text, configura		mory / PDF print files
User Storage / File Management		to store the mest trace, text, comigura es + high-capacity removable µSD ca		
GLITCH Mode	i iva image me		. ,	and ODAO > OZ UD
	Foreles		0,000 min / max pairs	nd V(f) _ EET
Display Modes	ETIVEIO	pe, vector, accumulation-, averaging	(Iaciois 2 to 64) - XY (Vector) at	iiu 1(i) = FFI
AUTOSET		Other Functions	on of the channels. Fraguers:	20 Uz
AUTOSET	Complete in under 5 s, with recognition of the channels, Frequency > 30 Hz			
FFT Analyzer & MATH Functions	2500-point FFT (<i>Lin or Log</i>) with measurement cursors, Functions +, -, x / and mathematical function editor			
Cursors	2 or 3 cursors: simultaneous V and T with AUTO measurement: T1, T2, Dt, 1 / Dt, dBV, Ph Simultaneously with waveform, 20 automatic measurements per channel and on the 4 channels simultaneously with scroll			
Automatic Measurements	Simultaneously with wa	· · ·	per channel and on the 4 channel	els simultaneously with scroll
0	0 - 1 1 2055	MULTIMETER MODE	DMO /Time / I I I I	block manager of the control of
General Specifications	2 or 4 channels – 8000 cts min / max / frequency / relative / TRMS / Time / date-stamped graphical recording in logger mode			
AC, DC and AC + DC Voltages	600 mV to 600 Vrms, 800 mV to 800 Vpc – Vpc accuracy + / - (0.5 % + 25 D) – 200 kHz bandwidth			
Resistance	80 Ω to 32 M Ω – accuracy 0.5 % R+ 25 D – quick continuity test < 10 ms			
Other Measurements	Temperature / Capacitance 5 nF to 5 mF / 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 Analyzer Mode		
Multi-channel Analysis	, ,	<i>ling on model)</i> , 63 orders, fundament	, , ,	
Simultaneous Measurements	To	6 fundamental, phase, frequency	v, Vrms)	
		Logger Mode		
Acquisition		Duration: 20,000 s / Interval: 0.2	s / Files: 100,000 measuremen	ts
		GENERAL		
Configuration Memories		Not limited according to	device (variable file sizes)	
Printing	Network printing via Ethernet / Wi-Fi in .png format			
PC Communication – Software	Ethernet (100 baseT), Wi-Fi-USB (device, 12 Mbps), ScopeNet application software for PC			
	PC: Ethernet and USB, ScopeNet (remote control, data recovery, cursors and automatic measurements)			
Software		Android™ tablet – ScopeAdm	nin Fleet Administration utility	,
Mains Power Supply	Li-ion recharg	jeable battery (6900 mA·h-40 W·h) /	Battery life of up to 8 h / Adjust	-
		Adapter / 2-hour fast charger, un	, , , ,	•
Safety / EMC / IP Protection	Safety as per IEC 61010-2-30, 600 V CAT III, 1000 V CAT II / EMC as per EN 61326-1 / IP54 protection			
Mechanical Specifications	(11.52 x 8.29 x 2.60) in (293 x 211 x 66) mm / 4.6 lb (2.1 kg) with batteries			
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Consult factory for NIST Calibration prices.

