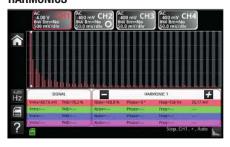
MODELS OX 9062, OX 9102, OX 9104 & OX 9304

Ergonomic, hand-held oscilloscope with 100 MHz bandwidth and 4 models: oscilloscope, multimeter, analyzer and recorder

OSCILLOSCOPE



HARMONICS



MULTIMETER - DISPLAYS UP TO 4 CHANNELS SIMULTANEOUSLY



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





OX 9104

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, μ SD 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

5000.17 Set of 5 stylus pens



OX 9062

CATALOG NO.	DESCRIPTION
2150.31	Handheld Portable Oscilloscope Model OX 9062 IV 60 MHz (2-Channel, 60 MHz) — SPECIAL ORDER ONLY
2150.32	Handheld Portable Oscilloscope Model OX 9102 IV 100 MHz (2-Channel, 100 MHz) — SPECIAL ORDER ONLY
2150.33	Handheld Portable Oscilloscope Model OX 9104 IV 100 MHz (4-Channel, 100 MHz)
2150.34	Handheld Portable Oscilloscope Model OX 9304 IV 300 MHz (4-Channel, 300 MHz)

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.





















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

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

Activates/deactivates the horizontal Zoom function

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, 300 MHz bandwidth, (4) 600 V CAT III isolated channels and Harmonic Analyzer and Multimeter modes make it ideal for industrial maintenance applications.



TECHNICAL SPECIFICATIONS	OX 9062	OX 9102	OX 9104	OX 9304		
HUMAN-MACHINE INTERFACE						
Type of Display	7 in WVGA color TFT I	LCD touch screen, (800 x 480)	dpi - LED backlighting (adjus	stable standby mode)		
Different Display Mode	2,500 real acquisition points on screen - vectors with interpolation					
Display of Curves on Screen	4 curves + 4 references – split screen & full screen modes					
Screen Commands	Touch screen – icons and graphical commands – customizable channel colors					
Choice of Language	15 complete languages, menus and online help					
OSCILLOSCOPE MODE						
Vertical Deflection						
Bandwidth	60 MHz	100 MHz	100 MHz	300 MHz		
	15 MHz, 1.5 MHz or 5 kHz bandwidth limiter					
Number of Channels	2 isolated channels 4 isolated channels					
Input Impedance	1 M Ω \pm 0.5 %, approx. 12 pF					
Maximum Input Voltage	600 V CAT III (1,000 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 μ V/div in vertical zoom mode (12-bit converter) – Accuracy \pm 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 / 1,000 or any scaling – definition of measurement unit					
Horizontal Deflection						
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 Winzoom' syst	em (direct graphical zoom on s	screen) x 1 to x 5 or x 100 – s	storage 100 kpts/channel		
Triggering						
Mode	On all the channels: automatic, triggered, one-shot, auto level 50 %					
Туре	Edge, pulse width (16 ns-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 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,					
File Management	PNG image files + high-capacity removable µSD card: SD 2 GB, SDHC (4 to 32) GB and SDXC > 32 GB					
GLITCH Mode	Duration ≤ 2 ns $-500,000$ min/max pairs					
Display Modes						
Other Functions						
AUTOSET	Complete in under 5 s, with recognition of the channels – Frequency > 30 Hz					
FFT Analyzer & MATH Functions						
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 scro					
Automatic Measurements	Simultaneously with waveform	, 20 automatic measurements	per channel and on the 4 chan	ineis simuitaneousiy with scroii		
MULTIMETER MODE	0.000 at a second	- / /fur TDN	AC Time /data atomical area	hiaal waaandiaa in laanaa maada		
General Specifications						
AC, DC and AC + DC Voltages Resistance	600 mV to 600 VRMS, 800 mV to 800 VDC – VDC accuracy +/- (0.5 % + 25 D) – 200 kHz bandwidth					
Other Measurements	80 Ω to 32 M Ω – accuracy 0.5 %R+ 25 D – quick continuity test < 10 ms					
	Temperature (HX0035 = KTC, HX0036 = Pt100) / Capacitance 5 nF to 5 mF / Frequency 200 kHz / Diode test 3.3 V Active, Reactive and Apparent power values plus Power Factor simultaneously with the U & I measurements					
Single and Three-Phase Power	Active, Reactive and App	rarent power values plus Powe	r Factor simultaneously with	the U & I measurements		
Harmonic Analyzer Mode	O or A (depending on	madal) CO ardara fundamente	I fraguency (40 to 450) II- in	auta ar manual mada		
Multi-channel Analysis		model), 63 orders, fundamenta				
Simultaneous Measurements	Total VIII	ns, THD and selected order (%	iundamentai, phase, irequen	cy, vrins)		
Logger Mode Acquisition	Dure	ation: 20,000 s – Interval: 0.2 s	Files, 100 000 massuram	onto		
•	Dura	ation: 20,000 s – interval: 0.2 s	s – Files: 100,000 measurem	ents		
GENERAL Configuration Mamorina		Not limited according to d	ovice veriable file sizes			
Configuration Memories	Not limited according to device - variable file sizes					
Printing	Network printing via Ethernet/Wifi in .png format					
PC Communication – Software	Ethernet (100 baseT), Wi-Fi-USB (device, 12 Mbps) – 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					
	Li-ion rachargaahla h			istable standby mode		
Mains Power Supply	Li-ion rechargeable battery (6,900 mA·h-40 W·h) – Battery life of up to 8 h – Adjustable standby mode Adapter / 2-hour fast charger, universal (98 to 264) V / (50/60) Hz)					
Safety / EMC / IP Protection						
Mechanical Specifications	Safety as per IEC 61010-2-30, 600 V CAT III, 1000 V CAT II / EMC as per EN61326-1 / IP54 protection (11.52 x 8.29 x 2.60) in (293 x 211 x 66) mm / 4.6 lbs (2.1 kg) with batteries					
moonamoai opeomoations	(11.J2 X	0.20 A 2.00) III (230 A 211 A 0	0, 111111 / T.O 103 (2.1 Kg) WILL	DULLOTIOS		

