OSCILLOSCOPES OX 9000 SERIES

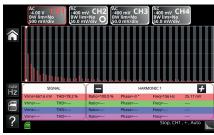
MODELS 0X 9062, 0X 9102, 0X 9104 & 0X 9304

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

OSCILLOSCOPE



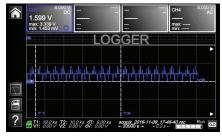
HARMONICS



MULTIMETER - DISPLAYS UP TO 4 CHANNELS SIMULTANEOUSLY



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







OX 9062

Advanced triggering and recording options

 Wider bandwidth up to 300 MHz (model dependent)

- Increased storage capacity, and more!
- 12-bit resolution

FEATURES

• 2.5 GS/sec

PRODUCT INCLUDES

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



ACCESSORIES/REPLACEMENTS

2124.77 PROBIX Current Probe, 20mA-20A 1MHz-3dB 5000.17 Set of 5 stylus pens

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

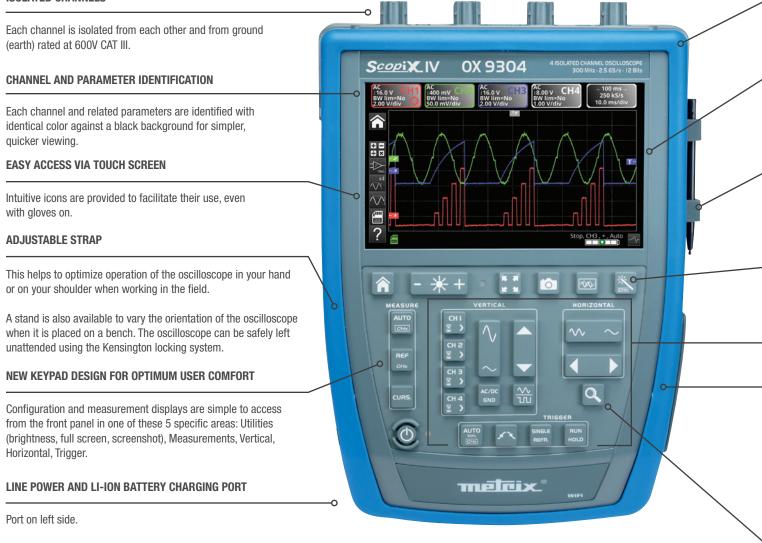


ERGONOMICS

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







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 x 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

Activates/deactivates the horizontal Zoom function

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.





OSCILLOSCOPES OX 9000 SERIES

TECHNICAL SPECIFICATIONS	OX 9062	OX 9102	OX 9104	OX 9304		
HUMAN-MACHINE INTERFACE						
Type of Display 7" WVGA color TFT LCD touch screen, 800x480 – LED backlighting (adjustable 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		re complete languages,				
Vertical Deflection						
	60 MHz	100 MHz	100 MHz	300 MHz		
Bandwidth		15 MHz, 1.5 MHz or 5 k				
Number of Channels	2 isolated			d channels		
Input Impedance	2 1301ateu		$1 \text{ M}\Omega \pm 0.5\%$, approx. 12 pF			
Maximum Input Voltage	$1002 \pm 0.5\%$, approx. 12 pr 600 V / CAT III (1,000V 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" system (direct graphical zoom on screen) x 1 to x 5 or x 100				storage 100 kpts/channel		
Triggering	^	all the channels of the set of the	wanted and also to to to the	0.0/		
Mode	On all the channels: automatic, triggered, one-shot, auto level 50%					
	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					
≤ 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					
	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 µSD card: SD 2 GB, SDHC 4-32 GB and SDXC > 32 GB					
GLITCH Mode	Duration $\leq 2 \text{ ns} - 500,000 \text{ min/max pairs}$					
splay Modes Envelope, vector, accumulation-, averaging (factors 2 to 64) – XY (vector) and Y(f)=FFT						
Other Functions						
AUTOSET		e in under 5 s, with recognition				
FFT Analyzer & MATH Functions	2,500-point FFT (Lin or Log) 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 scro					
	Simultaneously with waveform	, 20 automatic measurements p	er channel and on the 4 chan	nels simultaneously with scroll		
MULTIMETER MODE						
General Specifications		in/max/frequency/relative – TRM				
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 M Ω – accuracy 0.5%R+ 25D – quick continuity test < 10 ms					
Other Measurements		TC, HX0036 = Pt100) / Capacita				
Single and Three-Phase Power	Active, Reactive and App	parent power values plus Power	^r Factor simultaneously with t	he U & I measurements		
Harmonic Analyzer Mode						
Multi-channel Analysis		model), 63 orders, fundamenta				
Simultaneous Measurements	Total Vrn	ns, THD and selected order (% f	undamental, phase, frequenc	y, Vrms)		
Logger Mode						
Acquisition	Dura	ation: 20,000 s – Interval: 0.2 s	- Files: 100,000 measureme	ents		
GENERAL						
Configuration Memories		Not limited according to de	evice - variable file sizes			
Printing		Network printing via Ether				
PC Communication – Software	Ethernet (100 baseT), WiFi-USB (device, 12 Mbs) – "ScopeNet" application software for PC					
	PC: Ethernet and USB, ScopeNet (remote control, data recovery, cursors and automatic measurements)					
Software		Android tablet – ScopeAdmin	-	······································		
Maina Dawar Curreba	Li-lon rechargeable b	attery (6,900mAh-40 Wh) – Bat		stable standby mode		
Mains Power Supply			niversal 98-264 V / 50/60 Hz)			
	ŕ	ממטונה / ב-ווטעו ומסג טוומועדו. עו				
Safety / EMC / IP Protection		010-2-30, 600V CAT III, 1000V				

