# **OSCILLOSCOPES**

**HANDSCOPE** 









### **MODEL OX 5042B**

3-in-1 Instrument: Oscilloscope, Multimeter and Power Harmonic Analyzer with two fully isolated channels; fits into one hand

8.00 V

0.001 V

max:5.025 V

min:0.000 V

avg:2.517 V

4.801 W

max:4.817 W min:4.785 W



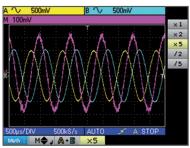




### SCAN TO **LEARN MORE**

### **FUNCTIONAL DISPLAYS**

### HIGH PERFORMANCE



Automatically displays measurements for both isolated channels from your choice of 19 measurement types.

8.00 V

-0.996 V max:3.708 V min:-3.738 V

avg:-0.021 V

AUTO(8.00 A)

2.288 A

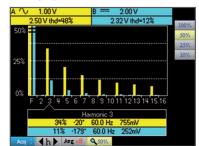
max:2.304 A

min:2.268 A

avg:2.281 A

TWO INDEPENDENT 8000-COUNT TRMS DIGITAL MULTIMETERS

#### HARMONIC ANALYZER

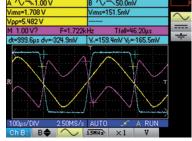


Measures two channels of individual harmonic content up to the 31st harmonic.

### **FEATURES**

- · Two fully isolated channels
- Three instruments in one:
  - 40 MHz Oscilloscope
  - Double 8000-count TRMS Multimeter/Power Analyzer
  - Harmonic Analyzer
- 3.5 inch color LCD screen LED backlighting technology
- Integrated interactive multilingual help function
- 2 MB recording data
- · Store graphic recordings of 2700 measurements (5 min to 1 mos)
- · Communication via isolated USB SCPI protocol

### STORAGE COMMUNICATION & PC SOFTWARE



View real-time measurements on your PC, configure the Handscope, export data to a spreadsheet using the SX-Metro included software.

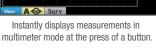
## PRODUCT INCLUDES

#### 2150.21

Small classic tool bag, USB wall plug 5 V, 2 A, USB cable, set of (2) 10 ft color-coded (red/black) leads, set of (2) color-coded (red/black) alligator clips, set of (2) color-coded (red/black) probes, BNC adapter, (2) probes 10:1 600 V BNC male, (6) 1.2 V NiMH rechargeable batteries, printed quick start quide, and a USB drive with software and user manual.

#### 2150.22

Field case, USB wall plug 5 V, 2 A, USB cable, set of (2) 10 ft color-coded (red/black) leads, set of (2) color-coded (red/black) alligator clips, set of (2) color-coded (red/black) probes, BNC adapter, (1) probe 10:1 600 V BNC male, (1) AC current probe Model MN251T, MiniFlex® Sensor 3000-24-1-1, (6) 1.2 V NiMH rechargeable batteries, printed quick start guide, and a USB drive with software and user manual.





### 2150.23

Field case, USB wall plug 5 V, 2 A, USB cable, set of (2) 10 ft colorcoded (red/black) leads, set of (2) color-coded (red/black) alligator clips, set of (2) color-coded (red/black) probes, BNC adapter, (1) probe 10:1 600 V BNC male, (1) AC current probe Model MN379T, MiniFlex® Sensor 3000-24-1-1, (6) 1.2 V NiMH rechargeable batteries, printed quick start guide, and a USB drive with software and user manual.



## **OSCILLOSCOPES** HANDSCOPE

MODEL	OX 5042B			
	INTERFACE			
Display	3.5 in color TFT LCD screen; Resolution (320 x 240) pixels – LED backlighting			
Commands	Direct adjustments on front panel and on-screen selection menus  (principal & secondary without hidden menus)			
Display Mode	2500 real acquisition points on screen			
Display of Curves on Screen	2 curves + 2 references + memory trace or mathematical calculation			
Integrated Interactive Help Function	14 complete languages, menus and contextual help			
integrated interded to Help I direction	OSCILLOSCOPE MODE			
Vertical Deflection				
Bandwidth 40 MHz				
Bandwidth Limiter	1.5 MHz, 5 kHz			
Number of Channels	2 fully isolated channels			
Input Impedance	1 M $\Omega$ ± 0.5 %, approximately 17 pF			
Maximum Input Voltage	600 V – Derating -20 dB per decade from 100 kHz			
Vertical Sensitivity	5 mV to 200 V / div			
vertical Sensitivity	Horizontal Deflection			
Sweep Speed	25 ns / div to 200 s / div – Roll Mode from 100 ms to 200 s / div			
Sweep Speed Horizontal Zoom	Zom factor: x1, x2, x5			
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Mode	Triggering Automatic triggered one chat and triggered roll			
Mode	Automatic, triggered, one-shot and triggered roll			
Type	Edge, pulse width (20 ns – 20 s)			
Coupling	AC or DC (depending on the coupling of the triggering channel) HF, LF or noise rejection			
Sensitive	≤ 1.2 divisions p-p up to 40 MHz			
Maximum Compline Dete	Digital Memory			
Maximum Sampling Rate	2 GS / s in ETS mode – 50 MS / s in one-shot mode on each channel			
Vertical Resolution	9 bits			
Memory Depth	2500 points per channel			
User Storage	2 MB for storing files: trace (.trc), text (.txt), configuration (.cfg), image files (.bmp)			
GLITCH Mode	Duration ≥ 20 ns − 1250 min / max pairs			
Display Modes	Envelope, Averaging (factors 2 to 64) and XY (vector)			
	Other Functions			
Math Functions	Channel inversion, addition, subtraction, multiplication and division (adjustable scaling)			
Cursor Measurement	2 cursors: V, T, dV, dt simultaneously – 4-digit display resolution			
Automatic Measurement	18 time or level measurements and phase measurement			
	MULTIMODE MODE			
General Specifications	2 channels, 8000-count display + min / max bargraph – Graphic recording of 2700 measurements (5 min to 1 mos)			
Operating Modes	Absolute or relative display (absolute, deviation, ref, ref %) – Monitoring (instantaneous, min, max, avg)			
AC, DC & AC+DC Voltages	Ranges from 600 mV to 600 Vrms, 800 mV to 800 Vbc – accuracy for Vbc ± 1 % reading +20 D –50 kHz bandwidth			
Resistance	Range from 80 $\Omega$ to 32 M $\Omega$ - accuracy $\pm$ 2 % reading $\pm$ 10 D $\pm$ 10 ms quick continuity test			
Capacitance	Ranges from 5 nF to 5 mF $-$ basic accuracy $\pm$ 2 % reading $+$ 10 D			
Other Measurements	Frequency, rotation speed, 3.3 V diode test, temperature measurement (with K-type thermocouple or infrared probe)			
Measurements	POWER  Single-phase and balanced three-phase active power values (with or without neutral), simultaneous display of current			
	HARMONIC ANALYZER MODE			
Multi-Channel Analysis	2 channels, 31 orders, fundamental frequency from (40 to 450) Hz			
Simultaneous Measurements	Total Vrms, THD and selected order (% fundamental, phase, frequency, Vrms)			
	GENERAL			
Screenshots	Up to 100 files in standard .bmp format, viewable on the instrument			
PC Communication	Isolated optical USB interface SX-Metro PC application software (included)			
Power Supply	6 LR6 or (6) AA NiMH batteries – Battery life up to 8 h 30 min			
	Universal line adapter isolated from the channels – Quick charging in 2 h 30 min			
Safety / EMC	Safety according to IEC 61010-1 600 V CAT III / EMC according to EN 61000-3 & EN 61326-1			

CAT. #	DESCRIPTION
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	2150.21	Hand-held Portable Oscilloscope Model OX 5042B	
	2150.22	Hand-held Portable Oscilloscope Model OX 5042B w / MN251T & MF 3000-24-1-1 (BNC Output)	
	2150.23	Hand-held Portable Oscilloscope Model OX 5042B w / MN379T & MF 3000-24-1-1 (BNC Output; Low AC current measurement)	

