OSCILLOSCOPES HANDSCOPE

MODEL OX 5042

One of the few oscilloscopes on the market with isolated channels that fit into one hand

SPECIFICATIONS

01 =011 10/1110110			
INTERFACE			
Display	3.5" color TFT LCD screen; Resolution 320 x 240 pixels – LED backlighting		
Commands	Direct adjustments on front panel & on-screen menus via browser (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	11 complete languages, menus and online help		
OSCILLOSCOPE MODE			











Display of Curves on Screen	2 curves + 2 references + memory trace or mathematical calculation	(GOOV) (CAT III) /P (E 🔲		
Integrated Interactive Help Function	11 complete languages, menus and online help	54\ C C		
OSCILLOSCOPE MODE				
Vertical Deflection				
Bandwidth	40MHz			
Bandwidth Limiter	1.5MHz, 5kHz			
Number of Channels	2 totally isolated channels			
Input Impedance	$1M\Omega \pm 0.5\%$, approx. 17pF			
Maximum Input Voltage	600V – Derating -20dB per decade from 100kHz			
Vertical Sensitivity	5mV to 200V/div			
Horizontal Deflection				
Sweep Speed	25ns/div to 200s/div – Roll Mode from 100ms to 200s/div			
Horizontal Zoom	Zoom factor: x1, x2, x5			
Triggering				
Mode	Automatic, triggered, one-shot & triggered roll			
Туре	Edge, pulse width (20ns – 20s)			
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 40MHz			
Digital Memory				
Maximum Sampling Rate	2GS/s in ETS mode – 50MS/s in one-shot mode on each channel			
Vertical Resolution	9 bits			
Memory Depth	2500 points per channel			
User Storage	2MB for storing files: trace (.trc), text (.txt), configuration (.cfg), image files (.bmp)			
GLITCH Mode	Duration ≥ 20ns – 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			
Operating Modes	Absolute or relative display (absolute, deviation, ref, ref%) – Monitoring (instantaneous, min, max, avg)			
AC, DC & AC+DC Voltages	Ranges from 600mV to 600Vrms, 800mV to 800Vpc – accuracy for Vpc ±1% rea			
Resistance	Range from 80Ω to $32M\Omega$ - accuracy $\pm 2\%$ reading + 10D –10ms quick continuity test			
Capacitance	Ranges from 5nF to 5mF – basic accuracy ±2% reading + 10D			
Other Measurements	Frequency, rotation speed, 3.3V diode test, temperature measurement (with K-type	e thermocouple or infrared probe)		
POWER				
Measurements	Single-phase and balanced three-phase active power values (with or without neutra	al), simultaneous display of current		
Harmonic Analyzer Mode		45011		
Multi-Channel Analysis	2 channels, 31 orders, fundamental frequency from 40 to 450Hz			
Simultaneous Measurements	Total VRMS, THD and selected order (% fundamental, phase, frequency, Vrms)			
GENERAL	The to 400 files to the Late to 18 t			
Screenshots	Up to 100 files in standard ".bmp" format, viewable on the i			
PC Communication	Isolated optical USB interface "SX-Metro" PC application softw			
Power Supply	6 LR6 or 6AA NiMH batteries – Battery life up to 8 hrs 3 Universal line adapter isolated from the channels – Quick charging	in 2 hrs 30 mins		
Safety/EMC	Safety according to IEC61010-1 Ed3 – 600V CAT III / EMC according to Ef	N61000-3 & EN61326-1		

Consult factory for NIST Calibration prices



OSCILLOSCOPES HANDSCOPE

FUNCTIONAL DISPLAYS

FEATURES

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

PRODUCT INCLUDES

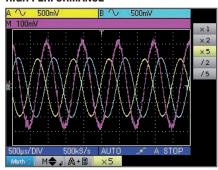
2150.21

Meter, small classic tool bag, US wall plug, 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 600V BNC male, (6) 1.2V NiMH rechargeable batteries, printed quick start guide, and a USB drive with software and a user manual.

2150.22

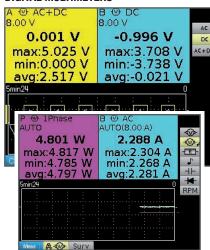
Meter, field case, US wall plug, USB cable, set of (2) 10 ft color-coded (red/black) leads, set of (2) color-coded (red/black) alligator clips, set of (2) color-coded (red/black) probes, BNC adapter, (1) probe 10:1 600V BNC male, (1) AC current probe Model MN251T, MiniFlex® Sensor 3000-24-1-1, (6) 1.2V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

HIGH PERFORMANCE



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

TWO INDEPENDENT 8000-COUNT TRMS **DIGITAL MULTIMETERS**

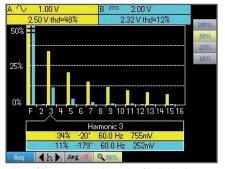


Instantly displays measurements in multimeter mode at the press of a button

2150.23

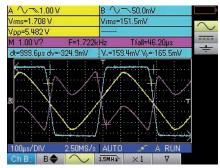
Meter, field case, US wall plug, USB cable, set of (2) 10 ft color-coded (red/black) leads, set of (2) color-coded (red/black) alligator clips, set of (2) color-coded (red/ black) probes, BNC adapter, (1) probe 10:1 600V BNC male, (1) AC current probe Model MN379T, MiniFlex® Sensor 3000-24-1-1, (6) 1.2V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

HARMONIC ANALYZER



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

STORAGE COMMUNICATION & PC SOFTWARE



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



SHOWN: CATALOG #2150.22

CATALOG NO.	DESCRIPTION
2150.21	Handscope Portable Oscilloscope Model OX 5042
2150.22	Handscope Portable Oscilloscope Model OX 5042 w/MN251T & MF 3000-24-1-1 (BNC Output)
2150.23	Handscope Portable Oscilloscope Model OX 5042 w/MN379T & MF 3000-24-1-1 (BNC Output; Low AC current measurement)

