OSCILLOSCOPES HANDSCOPE

MODEL 0X5042

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



SPECIFICATIONS

Special product features







SPECIFICATIONS	
INTERFACE	
Display	3.5" color TFT LCD screen; Resolution 320 x 240 - 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 languages: French, English, German, Spanish, Italian, Swedish, Romanian, Russian, Finnish, Polish, Dutch
OSCILLOSCOPE MODE	nonianan, nussian, i innisir, i onsir, butch
Vertical Deflection	
Bandwidth	40MHz
Bandwidth Limiter	40MD2 1.5MHz, 5kHz
Number of Channels	2 totally isolated channels
	2 totally isolated challings $1M\Omega \pm 0.5\%$, approx. 17pF
Input Impedance	
Maximum Input Voltage	600V CAT III – Derating -20dB per decade from 100kHz 5mV to 200V/div
Vertical Sensitivity	311IV (0.2009/GIV
HORIZONTAL DEFLECTION	05 (1) 1 000 (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sweep Speed	25ns/div to 200s/div – Roll Mode from 100ms to 200s/div
Horizontal Zoom	Zoom factor: x1, x2, x5
TRIGGERING	Administration of a 11011 1011
Mode	Automatic, triggered, one-shot & triggered Roll
Type	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	OCCIA in FTC and a FONC in one about an analysis and
Maximum Sampling Rate	2GS/s in ETS mode – 50MS/s in one-shot mode on each channel
Vertical Resolution	0 010
Memory Depth	2500 points per channel
User Storage Glitch Mode	2MB for storing files: trace (.trc), text (.txt), configuration (.cfg), image files (.bmp)
Display Modes	Duration ≥ 20ns – 1250 min/max pairs
Other Functions	Envelope, Averaging (factors 2 to 64) and XY (vector)
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
MULTIMETER MODE	to time of rever measurements and phase measurement
General Specifications	2 channels, 8000-count display + min/max bargraph - Graphic recording of 2700 measurements (5min to 1 month)
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 800Vbc – accuracy for Vbc ±1% reading+20D –50kHz bandwidth
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 thermocouple or infrared probe)
POWER	requency, rotation speed, e.o. and e.e.s., temperature measurement (with the type the mode of immarcal probe)
Measurements	Single-phase and balanced three-phase active power values (with or without neutral), simultaneous display of current
HARMONIC ANALYZER MODE	origin phase und butaneed three phase detays power values (with or without neartail), simultaneous display of current
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 GENERAL	iotal viniks, itto and selected order (70 iditidaliental, priase, frequency, viniks)
	Up to 100 files in standard "bone" format visionable and the instrument
Screenshots BC Communication	Up to 100 files in standard ".bmp" format, viewable on the instrument
PC Communication	Isolated optical USB interface "SX-Metro" PC application software (included) 6 LR6 or 6AA NiMh batteries – Battery life up to 8hrs 30min
Power Supply	Universal line adapter isolated from the channels – Quick charging in 2hrs 30min
Safety/EMC	Safety according to IEC61010-1 Ed3 – 600V CAT III, EMC according to EN61000-3, 2001 & EN61326-1, 2006
outoty, Linto	20101, 40001011 (1 1200 1010 1 1200 0000 011 11), Elito 4000101111 (1 12101000 0, 2001 0 12101020 1, 2000



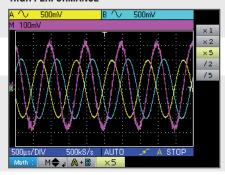
Functional Displays



FEATURES

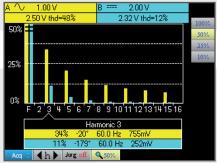
- Two isolated channels
- Three instruments in one
 - 40MHz oscilloscope
 - Double 8000-count TRMS multimeter / Power analyzer
 - Harmonic analyzer
- 3.5" color LCD screen LED backlighting technology
- Integrated interactive multilingual help function
- 2MB recording data
- Store graphic recordings of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

HIGH PERFORMANCE



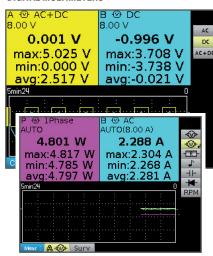
Automatically displays measurements for both isolated channels from your choice of 19 measurement types.

HARMONIC ANALYZER

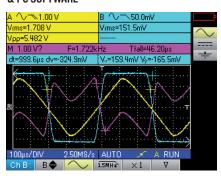


Measures two channels of individual harmonic content up to the 31st harmonic.

TWO INDEPENDENT 8000-COUNT TRMS DIGITAL MULTIMETERS



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: Model 2150.22 and 2150.23

KITS INCLUDE

2150.21

Meter, small classic tool bag, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Color-coded Alligator Clips (red/black), Set of 2, color-coded Probes (red/black), BNC Adapter, 2 Probe 10:1 600V BNC male, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

2150.22

Meter, field case, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Color-coded Alligator Clips (red/black), Set of 2, Color-coded Probes (red/black), BNC adapter, 1- Probe 10:1 600V BNC male, AC Current Probe Model MN251T, MiniFlex Sensor 3000-24-1-1, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

2150.23

Meter, field case, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Color-coded Alligator Clips (red/black), Set of 2, Color-coded Probes (red/black), BNC adapter, 1- Probe 10:1 600V BNC male, AC Current Probe Model MN379T, MiniFlex*Sensor 3000-24-1-1, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

