

OX 7042
OX 7062
OX 7102
OX 7104

Scopix II, portable and self-contained digital oscilloscope 40 to 100MHz



From the laboratory to the field, from diagnostic to appraisals, for desktop and portable use, a unique instrument !

- 5 complementary tools in one : **OSCILLOSCOPE ; MULTIMETER ; FFT ANALYSER ; HARMONIC ANALYSER AND RECORDER**
- Sampling rate 1Gs/s in single-shot and 50Gs/s in ETS
- **Memory depth of 50k** per channel (OSCILLOSCOPE & RECORDER) (option) **new**
- 2 or 4 isolated measurement channels, 600V CATIII, and up to 8 curves on screen
- "Real time" FFT analysis standard and calculation functions on the channels
- 2 or 4 digital multimeters, TRMS, 8,000 counts, 200kHz, independent
- **Trigger on thresholds of measures in multimeter and oscilloscope modes** **new**
- Colour or monochrome LCD touch screen
- 33 direct command keys and "Windows like" menus on screen
- Probix input terminals (plug & play) and associated smart sensors
- Multi-interface communication connector : RS232, USB, centronics and Ethernet
- **Simplified installation of software options thanks to a unique code** **new**
- **WEB server with cursors et automatic measurements, FTP server/client** **new**

metrix®

Scopix II, portable digital oscilloscope

Technical specifications	OX7042	OX7062	OX7102	OX7104
HUMAN INTERFACE				
Display screen	Colour or monochrome (depending model) 5" 7 LCD (115 x 86 mm) - 320 x 240 -CCFL backlighting			
Display mode	500 samples real time acquisition on screen – Vectors with interpolation			
Curve display on screen	4 curves + 4 references - Split Screen & Full Screen modes (tracing zone 110 x 74)			
Front panel control	33 direct shortcuts - 1 start/stop and power-saving button			
Screen control	Touch screen - "Windows-like" menus and graphic commands			
Languages	5 complete languages, menus & on-line help (French, English, German, Spanish, Italian)			
OSCILLOSCOPE MODE				
Vertical deviation				
Bandwidth	40MHz	60MHz	100MHz	100MHz
	Bandwidth limit : 15 MHz, 1,5MHz or 5kHz			
Channels	2 isolated channels	2 isolated channels	2 isolated channels	4 isolated channels
Input impedance	1 M Ω \pm 0,5% , 17pF approx.			
Maximum input voltage	600 V / CAT III - Probox security connectors - Derating : -20dB/decade from 100kHz			
Vertical sensitivity	16 ranges from 2,5 mV to 200 V/div and up to 156 μ V/div in vertical zoom mode (12 bits converter) – Accuracy \pm 1%			
Vertical zoom	« One Click Winzoom » system (12 bits converter and direct graphic zoom on screen) - x 16 max			
Probes factor	1 / 10 / 100 / 1 000 or scaling to any value – Definition of the measurement unit			
Horizontal deflection				
Time base speed	35 ranges from 1 ns/div to 200 s/div., accuracy \pm 0,1% - Roll mode from 100ms to 200s/div			
Horizontal zoom	« One Click Winzoom » system (direct graphic zoom on screen) x1 to x5 and up to x100 with « Extended Memory Acquisition » option			
Trigger circuit				
Mode	On all channels : automatic, triggered, single, auto 50%			
Type	Edge, Pulse (20 ns to 20 s), Delay (120ns to 20s), Count (3 to 16384 events), TV frame or N° of line (625=NTSC or 625=PAL/SECAM) – Continuous adjustment of the trigger's position			
Coupling	AC, DC, HFR, LFR, noise – Hold-Off adjustable from 160 ns to 30 s			
Sensitivity	\leq 0,6 div at 1 KHz / \leq 1,5 div on full bandwidth			
On measuring window	Starting from one of the 16 automatic measurements - Acquisition and fault automatic stored			
Digital memory				
Maximum sampling speed	50 Gs/s in ETS - 1 Gs/s in single-shot (on each channel)			
Vertical resolution	12 bits (vertical resolution 0,025%)			
Acquisition memory depth	2500 samples/channel and up to 50000 samples/channel with the « Extended Acquisition Memory » option			
User memory « Windows Like » files control	2 Mb to store different files : trace, text, configuration, mathematical functions, print files, image files, etc.			
GLITCH mode	Duration \geq 2 ns - 1250 couples Min/Max (up to 25000 couples with the « Extended Acquisition Memory » option)			
Display mode	Envelope, Averaging (Factors 2 to 64) and XY (vector)			
Other functions				
AUTOSET	Search time : < 5 s, with channels recognition – Frequency > 30 Hz			
FFT analyser & MATH functions	FFT (Lin or Log) measurement cursors - Functions +, -, x, / with publishing of mathematical functions			
Cursors	2 or 3 cursors : V and T simultaneous or Phase – Resolution : 12 bits - Display : 4 digits			
Automatic measurements	19 temporal or level measurements, Phase measurements – Resolution : 12 bits – Display : 4 digits			
MULTIMETER MODE				
General specifications	2 or 4 channels – 8000 cts max. + bargraph min/max – TRMS – Time-stamped graphical recording (5 min to 31days)			
AC, DC, AC + DC voltage	300 mV to 600Vrms, 400mV to 800Vdc - VDC accuracy : 0,5%L+5D – Bandwidth 200 kHz			
Resistance	80 Ω to 32M Ω - Accuracy 0,5%L+ 25D – Fast continuity test : 10 ms			
Others measurements	Capacitance 5nF to 5mF – Frequency 200 kHz – Diode test 3,3 V			
Measuring window triggering	2 or 4 channels guarded, Configurable default duration – Up to 100 time-stamped default stored in « .TXT » files			
HARMONICS ANALYSER MODE (option)				
Multi channel analysis	2 or 4 (depending on model), 61 orders, Fundamental frequency from 40 to 450Hz in auto or manual mode			
Simultaneous measurements	Total Vrms, THD and selected order (fundamental %, phase, frequency, Vrms)			
RECORDER MODE (option)				
Duration / Sampling rates	From 2s to 1 month / from 800 μ s to 18 min (from 40 μ s to 53 s with the « Extended Memory Acquisition option)			
Recording conditions	On thresholds or windows, simultaneous conditions on several channels, with configurable duration from 160 μ s			
Recording analysis	Scales et physic units, Automatic or cursor measurements, Time-stamped default searching, zoom, etc...			
General specifications				
Configuration memory	Unlimited – « .CFG » file size : approx. 1 kB			
Printing	Ethernet network printing 10 Mb (standard), RS232 (standard), or Centronics (option)			
PC communication	Local via Ethernet 10 Mb, RS232 (max. 115 kbs) or USB (option) – « Sx-Metro » application software for PC (option)			
Network	Remote via Ethernet 10Mb, Web server (remote, «real-time trace», cursors and automatic measurements) FTP server (file exchange with PC), FTP client (storage on PC hard disk – unlimited capacity)			
Power supply	NiMH batteries – Approx. 4H between charges – Adjustable power-saving switching Adapter / Fast charge / Multi-voltage (standard) - 98-264 V / 47-63 Hz / < 15 W			
Security / EMC	Security depending on CEI6101-1 (2001) – CEM depending on EN61326-1			
Mechanical characteristics	265 x 195 x 56 mm - 1,9 kg with batteries - IP51 protection (IP41 for the OX7104)			

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Characteristics subject to modifications

Standard delivery

1 oscilloscope, 1 user's manual et 1 remote programming on CD-ROM, 1 adapter / line charger, NiMH batteries pack, 1 or 2* Probox 1/10 probes, 1 ou 2* BNC Probox adapters, 1 banana Probox adapter, 1 banana set of cords, 1 crossed Ethernet cord, 1 straight Ethernet cord *, 1 RS232 cable, SX-METRO data processing software * and 1 carrying case *

* « kit » version in carrying case



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