

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**

mettix®

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 MΩ ± 0,5% , 17pF approx.			
Maximum input voltage	600 V / CAT III - Probix security connectors - Derating : -20dB/decade from 100kHz			
Vertical sensitivity	16 ranges from 2,5 mV to 200 V/div and up to 156 μV/div in vertical zoom mode (12 bits converter) – Accuracy ± 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 ± 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 (525=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	≤ 0,6 div at 1 KHz / ≤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 ≥ 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			
MUMTIMETER 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	80Ω to 32MΩ - 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 μs to 18 min (from 40 μs 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 μs			
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 10Mo, 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)			

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* Probix 1/10 probes, 1 ou 2* BNC Probix adapters, 1 banana Probix 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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