

OX 7042  
OX 7062  
OX 7102 - OX 7102  
OX 7202 - OX 7204

## Scopix II, portable and self-contained digital oscilloscope 40 to 200MHz



**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**
- **Bandwidth up to 200MHz, 2 or 4-channel models** *new*
- **Sampling rate up to 2.5Gs/s in single-shot** and 50Gs/s in ETS *new*
- **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
- **Large storage capacity on removable SD-Card (Ox7202 & Ox7204)** *new*
- **WEB server with cursors et automatic measurements, FTP server/client** *new*

**mettix**®

# Scopix II, portable digital oscilloscope

Technical specifications	Ox7042	Ox7062	Ox7102	Ox7202 (1)	Ox7104	Ox7204 (1)
<b>HUMAN INTERFACE</b>						
Display screen	Colour or monochrome (depending model) 5" 7 LCD (115 x 86 mm) - 320 x 240 –CCFL backlighting or Colour 5" 7 TFT LCD (115 x 86 mm) - 320 x 240 – LED backlighting (1)					
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)					
Screen control	Touch screen - "Windows-like" menus and graphic commands					
Languages	5 complete languages, menus & on-line help (French, English, German, Spanish, Italian)					
<b>OSCILLOSCOPE MODE</b>						
<b>Vertical deviation</b>						
Bandwidth	40MHz	60MHz	100MHz	200MHz	100MHz	200MHz
Channels	2 isolated channels			4 isolated channels		
Input impedance	1 M $\Omega$ $\pm$ 0,5%, 17pF approx.					
Maximum input voltage	600 V / CAT III - Probix security connectors - Derating : -20dB/decade from 100kHz					
Vertical sensivity	16 ranges from 2,5 mV to 200 V/div and up to 156 $\mu$ 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					
<b>Horizontal deflection</b>						
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					
<b>Trigger circuit</b>						
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					
Sensivity	$\leq$ 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					
<b>Digital memory</b>						
Maximum sampling speed	50 Gs/s in ETS – 2.5Gs/s (1) or 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... + removable large storage capacity SD-Card (512Mo to 2Go) for Ox7202 & Ox7204					
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)					
<b>Other functions</b>						
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					
<b>MULTIMETER MODE</b>						
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 $\Omega$ to 32M $\Omega$ - 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					
<b>HARMONICS ANALYSER MODE (option)</b>						
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)					
<b>RECORDER MODE (option)</b>						
Duration / Sampling rates	From 2s to 1 month / from 800 $\mu$ s to 18 min (from 40 $\mu$ 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 $\mu$ s					
Recording analysis	Scales et physic units, Automatic or cursor measurements, Time-stamped default searching, zoom, etc...					
<b>General specifications</b>						
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 & Ox7204)					

## Standard delivery

1 oscilloscope, 1 pointing device, 1 handling strap, 1 user's manual et 1 remote programming on CD-ROM, 1 adapter / line charger, NiMH batteries pack, 1  $\mu$ SD-Card and SD-Card adapter (minimum capacity 512Mo) (1), 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, (1) Ox7202 and Ox7204 only.



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## For assistance and ordering