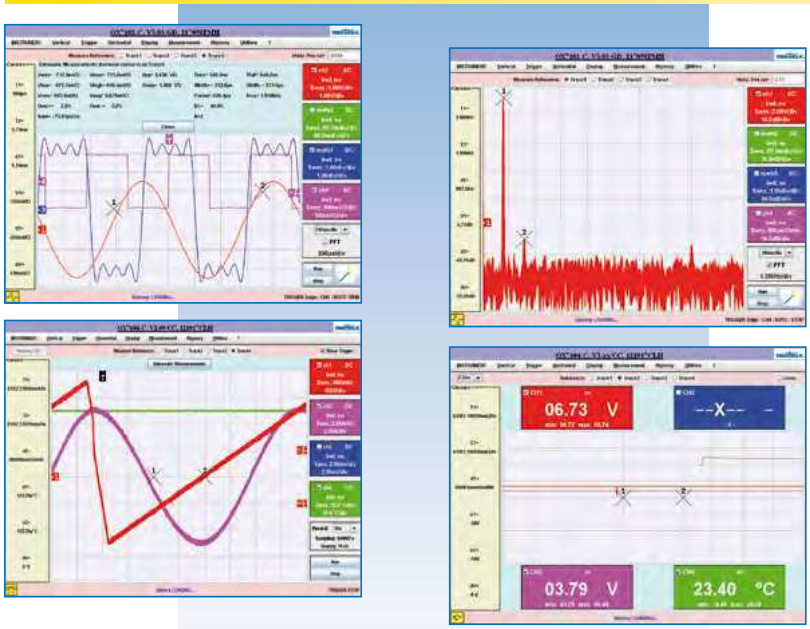
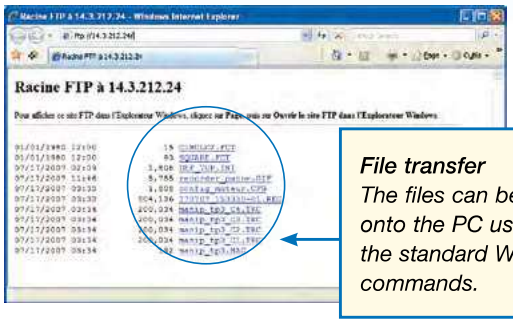
NO MORE PROBLEMS WITH DISTANCE AND EQUIPMENT

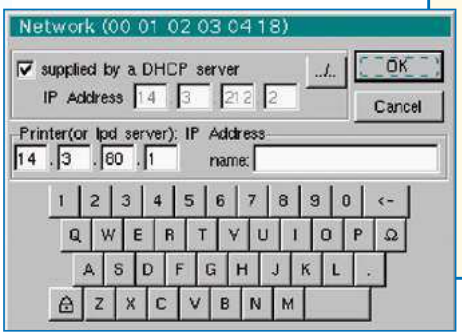


The ETHERNET interface and the new "SCOPENET" WEB server open the way for new ways of working and communicating, locally or remotely, as well as a level of comfort and efficiency which users quickly learn to rely on. To establish communication, all the other items of equipment (printer, PC, etc.) need to have IP addresses, like the OX 7000. In this way, even when you are on the road, you can print out your results on a network printer or exchange files between the OX and a computer. You can also communicate with the instrument remotely from any PC, view the traces in real time and control the instrument using the control panel.
Whether local or remote, these transfer and exchange operations can be carried out simply, quickly and without installing any software on the computer, thanks to the Web and FTP servers and to the new "SCOPEADMIN" utility. For the first time, these portable oscilloscopes for industrial and electronic maintenance help to solve the traditional problems linked to printing, back-up and documentation of the traces. The distance between the maintenance site and the office becomes virtual.

Use of the WEB server



File transfer
The files can be copied onto the PC using the standard Windows commands.



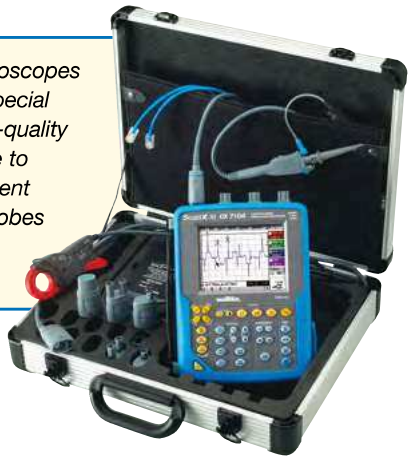
It is really simple to configure communications because, in most cases, the instrument's IP address is supplied automatically by the local server.
All you have to do is enter the address of the printer to be used.

ProbiX SYSTEM SMART PROBES AND ADAPTERS

The ProbiX system guarantees quick, error-free implementation of the instrument, a crucial advantage with equipment used for troubleshooting. For flawless compatibility, it is always possible to connect BNC accessories and standard banana leads via the safety adapters supplied.

Interchangeable plastic rings can be used to match the accessory's colour to the channel's colour. The oscilloscope directly powers and calibrates the sensors. Some accessories even include three buttons directly accessible on the probe.

The OX 7000 oscilloscopes are available in a special version with a high-quality metal carrying case to protect the instrument and store all the probes and measurement accessories.

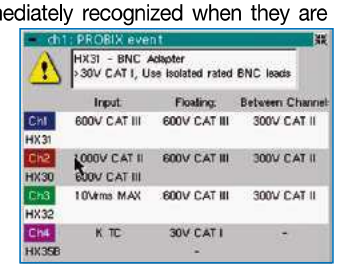


Channel configuration and sensor management

The sensor coefficients, scales and units and the channel configuration are managed automatically. The first two control buttons on the probes can be used to directly modify the parameter settings of the channel to which they are connected. They also control the functions accessible on the front panel of the oscilloscope. The third button is specialized for each accessory. On the voltage probes, for example, it controls lighting of the measurement zone. At connection, all the preferred parameters stored in the accessories (assignment of buttons 1 and 2, colour) are automatically reactivated by means of the Probix "pop-up" shown opposite.

Accessory identification and safety management

A sort of "plug and play" system for measurement, ProbiX probes and adapters are immediately recognized when they are connected. The instrument not only identifies them, but also gathers information on their characteristics. Active safety is built in, notably in the form of safety information and recommendations concerning the accessory used.



TECHNICAL SPECIFICATIONS	OX 7042 (1)	OX 7062	OX 7102	OX 7202	OX 7104	OX 7204
MAN-MACHINE INTERFACE						
Type of display	5.7" B&W (1) LCD screen (115 x 86 mm) - 320 x 240 - CCFL backlighting (adjustable standby time) or 5.7" colour TFT LCD (115 x 86 mm) - 320 x 240 - LED backlighting (adjustable standby time)					
Screen commands	Touch screen - "Windows-like" menus and graphic commands					
Choice of language	Menus and online help in 5 languages (French, English, German, Spanish, Italian)					
OSCILLOSCOPE MODE						
Vertical deflection						
Bandwidth	40 MHz	60 MHz	100 MHz	200 MHz	100 MHz	200 MHz
	15 MHz, 1.5 MHz or 5 kHz bandwidth limiter					
Number of channels	2 isolated channels				4 isolated channels	
Vertical sensitivity	16 calibres from 2.5 mV - 200 V/div and up to 156 µV/div in vertical zoom mode (12-bit converter) - Accuracy ± 1 %					
Vertical zoom	"One Click Winzoom" system (12-bit converter and direct graphical zoom on screen) - x 16 max.					
Probe factors	1 / 10 / 100 / 1,000 or any scaling - Definition of measurement unit					
Horizontal deflection						
Sweep speed	35 calibres from 1 ns/div to 200 s/div., accuracy ± 0,1 % - Roll mode from 100 ms to 200 s/div					
Horizontal zoom	"One Click Winzoom" system (direct graphical zoom onscreen) - x 100 max					
Triggering						
Mode	On all channels: automatic, triggered, one-shot, auto level 50 %					
Type	Edge, pulse width (20 ns - 20 s), delay (120 ns to 20 s), counting (3 to 16,384 events), TV frame or no. of lines (525 = NTSC or 625 = PAL/SECAM) - Triggering after delay - Continuous adjustment of Trigger position					
On measurement window	On one of the 16 automatic measurements - Acquisition and automatic storage of faults					
Digital memory						
Maximum sampling rate	100 GS/s in ETS mode - 2.5 GS/s in one-shot mode (on each channel) - 12 bits (vertical resolution 0.025 %)					
Memory depth	2,500 points/channel and up to 50,000 points/channel with the "Extended Acquisition Memory" option					
User memory "Windows-like" file management	2 MB for storing various types of files: trace, text, configuration, mathematical functions, print files, image files, etc. + large-capacity removable SD-Card (512 MB to 2 GB)					
GLITCH modes and averaging	2 ns GLITCH Mode, Envelope Mode, Averaging (Factors 2 to 64), XY Mode					
Other functions						
FFT analyser & MATH functions	FFT (Lin or Log) with measurement cursors - Functions: +, -, x, / and mathematical function editor					
Cursors	2 or 3 cursors: simultaneous V and T or Phase - Resolution 12 bits, display 4 digits					
Automatic measurements	19 time or level measurements, Phase measurement - Resolution 12 bits, display 4 digits					
MULTIMETER MODE						
General characteristics	2 or 4 channels - 8,000 counts max. + min/max bargraph - TRMS - Time/date-stamped graphic recording (5 min to 31 days)					
AC, DC and AC + DC voltages	600 mV to 600 VRMS, 800 mV to 800 VDC - VDC accuracy 0,5 % R + 5 D - bandwidth 200 kHz					
Trigger on measurement window	2 or 4 monitored channels, parameterizable fault duration - Up to 100 time/date-stamped faults stored in a ".TXT" file					
Active power and PF	Single-phase - Balanced three-phase (OX 7104 or OX 7204), with or without neutral and using the 2-wattmeter method					
Resistance	80 Ω to 32 MΩ - accuracy 0,5 %R + 25 D - 10 ms quick continuity test					
Other measurements	Temperature (HX0035 = K TC, HX0036 = Pt 100) - Capacitance 5 nF to 5 mF - Frequency 200 kHz - Diode test 3.3 V					
HARMONIC ANALYSER MODE (option)						
Multi-channel analysis	2 or 4 (depending on model), 61 orders, fundamental frequency from 40 to 450 Hz in auto or manual mode					
Simultaneous measurements (voltage/current)	Total RMS value, THD and selected order (% fundamental, phase, frequency, RMS value)					
Single-phase and balanced three-phase power	Harmonic analysis on apparent power with "received/transmitted" indication for each order					
RECORDER MODE (option)						
Sampling duration	2 s to 1 month / 800 µs to 18 min (40 µs to 53 s with the "Extended Memory Acquisition" option)					
Recording conditions	On thresholds or window, simultaneous conditions on several channels, with parameterizable duration starting at 160 µs					
Recording analysis	Scales and physical units, automatic or cursor measurements, time-stamped fault searching, zoom, etc.					
General specifications						
Printing	Network printer via 10 Mb Ethernet (standard), RS232 (standard) or Centronics (option)					
PC communication	10 Mb local Ethernet, USB or RS 232 (option) (max. 115 kbps) - "SX-Metro" PC application software (option)					
Network	10 Mb remote Ethernet, Web server (remote control, "real-time" trace, cursors and automatic measurements) FTP server (file exchange with a PC), FTP client (storage on PC hard disk - unlimited), utility SCOPEADMIN					
Power supply	Mains power supply NiMH battery - Battery life up to 7.5 hrs - Adjustable standby function - Multi-voltage adapter/high-speed charger (standard) - 98-264 V / 47-63 Hz / (15 W)					
Safety / EMC	Safety as per IEC 61010-1 (2001) - EMC as per EN61326-1 - 600 V CAT III					
Mechanical specifications	265 x 195 x 56 mm - 1.9 kg with batteries - Protection IP51 (IP41 for OX 7104 and OX 7204)					

(1) depending on model

Ref for ordering	State at delivery
OX7042-MSD OX7042-CSD OX7062-CSD OX7102-CSD OX7202-CSD OX7204-CSD	**Version ❶** oscilloscope in cardboard box with: external power supply/battery charger, NiMH battery pack, magnetic stylus, 1/10 Probix HX0030B probe for 2-ch. version and 2 probes for 4-ch. version, Probix HX0031 BNC adapter for 2-ch. version and 2 adapters for 4-ch. version, Probix HX0033 Ø 4 mm banana adapter, set of Ø 4 mm banana leads + test probe, HX0040 crossed-Ethernet cable, HX0084 USB cable, µSD card with minimum capacity of 1 GB and SD-Card adapter, operating and programming manual and LW/LV drivers on CD-Rom.
OX7042P-CSDK OX7104P-CSDK	Same as **version ❶** + 1/10 Probix HX0030B probe, Probix HX0031 BNC adapter, HX0072 and HX0073 *FLEX* current probes, 2 HX0071 industrial accessories kits for HX0030B Probix probe, HX0039 straight-Ethernet cable, SX-METRO/P processing software (all software options installed) and carrying case.
OX7104-CSDO OX7204-CSDO	Same as **version ❶** + 2 x 1/10 Probix HX0030B probes, SX-METRO/P processing software with harmonics, logger and 50 KB options installed, carrying case.

OPTIONAL ACCESSORIES

Software options
- HX0028: "Harmonic analysis" option
- HX0029: "Recorder" option
- HX0075: "Power measurement" option
- HX0077: "Acquisition memory extension" option

Probix accessories
- HX0030B: Probix 1/10 probe 250 MHz - 600 V CAT III - 1000 V CAT II
- HX0031: Probix BNC adapter - BW 250 MHz
- HX0032: Probix 50 Ω BNC Adapter - BW 250 MHz
- HX0033: Probix banana adapter
- HX0034: Clamp-on ammeter 80 A peak, AC/DC, BW 1 MHz
- HX0035B: Adapter for K thermocouple, -40 °C to +1,250 °C
- HX0036: Adapter for Pt100, -100 °C to +500 °C
- HX0071: Industrial accessories kit for HX0030B
- HX0072: Probix Amp*FLEX* current probe, 5 A to 3,500 A - 200 kHz
- HX0073: Probix MiniAmp*FLEX* current probe, 1 A to 350 A - 3 MHz

Metrological communication
- HX0039: Straight RJ45 Ethernet cable
- HX0040: Crossed RJ45 Ethernet cable
- HX0041: RS232 / Centronics adapter
- HX0042: 9-pin RS232 / SUBD cable
- HX0055: USB master / RS232 adapter
- SX-METRO/P: Data processing software
- HX0084: USB cable

Transport / Power supply
- HX0038: Carrying case
- HX0057: Fully-equipped Scopix case
- HX0061: 10 to 60 VDC vehicle power supply
- HX0063: Battery and external charger accessory

906211217 - Ed. 4 - 03 /2013 - VS - Non contractual document. Confirm specifications before ordering.

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