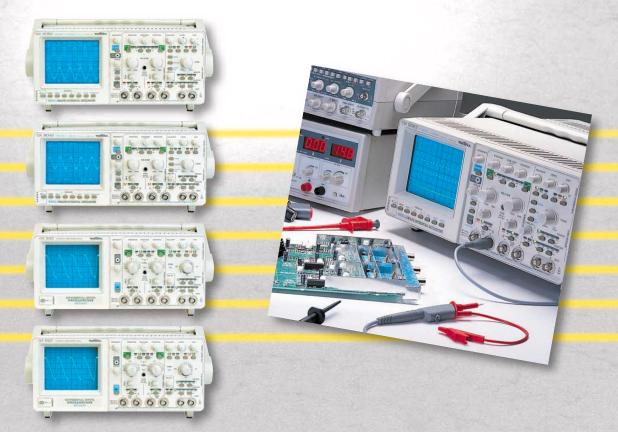
Mixed and analogue differential oscilloscopes



Metrix dares to offer a unique, global solution

- Two in one: operation of each channel in differential or traditional mode
- Standard delivery includes FFT and harmonics analysis
- A unique level of protection: IEC 61010, Cat.III, 300 V Cat.II, 600 V
- Unequalled input dynamic: 10 mV/div. to 200 V/div. in 14 calibres
- Differential inputs: 600 Vmax on the inputs, up to 600 V common mode
- A complete family: 2 analogue models, 2 digital/analogue models
- For applications up to 60 MHz



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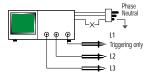


OX 8062 - OX 8042 - OX 822: Mixed and analogue differential oscilloscopes

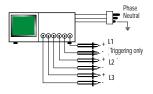
The only genuine protection against dangerous voltages

In today's world, nobody can ignore safety any more. But are you always sure that the voltage measured is earthed? Do you always have a single reference potential for the 2 channels? If you look objectively at the various cases of measurement on site, whether in electronics or the electrotechnical field, you will see that it is often necessary to set up a costly and complex assembly. With METRIX's differential-input oscilloscopes, no need to use accessories to observe the signals superimposed on the mains signal or to analyze the command voltage and the output from any circuit at the same time, with a common mode voltage of up to 600 V.

With a conventional oscilloscope



With a differential oscilloscope



Example of use of a differential oscilloscope



In differential mode, one BNC connector corresponds to the + terminal and another to the - terminal. In conventional mode: CH1- and CH2- are inhibited

IEC 61010, Cat.III, 300 V Cat.II, 600 V, what could be better?

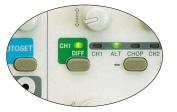
The OX 8062, OX 8042, OX 832 and OX 822 oscilloscopes can be used in the laboratory or on site, even in difficult industrial environments, as shown by their installation category...



Only METRIX oscilloscopes are suitable for such a wide range of uses.

Change the mode as you want

With no danger, it is possible to switch from one operating mode to the other at any time simply by pressing a button. This flexibility will be particularly appreciated for electronic applications that use miniature probes.



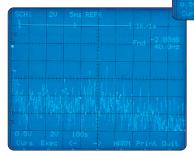
Each channel operates independently in differential or conventional mode. All you have to do to choose the mode is press a key.

Up to 200V/div. without accessories

Whether the signal amplitude is high or low, the OX 8062, OX 8042, OX 832 and OX 822 offer a sufficiently wide dynamic range (from 10 mV/div. to 200 V/div.) for measurement without probes. More savings and more flexible use!



The FFT and harmonics analysis displays particularly distinctive because of the way the cursor moves and the nature of the information indicated on the screen.

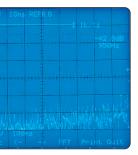


A complete family

With the OX 8062, OX 8042, OX 832 and OX 822 oscilloscopes, METRIX gives users the opportunity of choosing the instrument best suited to their requirements: for repetitive, relatively low-frequency signals, the OX 832 and OX 822 provide an excellent price/quality ratio; for repetitive or other signals, when their shape or the events preceding triggering have to be memorized, the OX 8062 and OX 8042 stand out because of their bandwidths of 60 and 40 MHz respectively.







Standard delivery includes FFT and harmonics analysis

The two digital models in the range include the FFT function, for studying the frequency breakdown of the signal, and harmonics analysis, both as standard features.

In FFT mode, the cursor follows all the signal counts, each time indicating the amplitude (in Volts or dB) and the frequency.

In harmonics mode, the cursor automatically jumps from one overtone to the next, indicating the number of the overtone, its amplitude as a percentage of the fundamental and its frequency. This representation of the harmonics is richer than a conventional bar display.

In particular, it even works on MLI-type signals.

Print quality equal to display quality

The sampling concept quickly demonstrates its limits when the signal includes steep rises and falls. The solution currently used involves interpolating dots between them (METRIX EADJ dot-join function). Although this process has been around for some time, its extension to printing is much rarer.

Unlike many oscilloscopes, the OX 8062 and OX 8042 offer the same quality of representation for display and printing (subject to the performance of your printer).

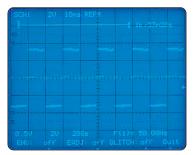
A wide range of digital functions

As well as their 5 cursors, the OX 8062 and OX 8042 propose up to 17 automatic measurements.

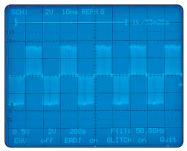
Their "GLITCH" mode, for capturing parasites, and "ENVELOPE" mode, for storing the minimum and maximum values of several successive acquisition operations, allow a large number of events

to be displayed. Lastly, because RS 232 and Centronics

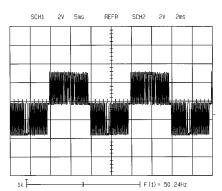
links are standard features, users can take advantage of the possibilities offered by digital techniques: analysis and processing on PC by the SX-METRO software, direct printout of the screen on a printer, etc.



Representation of rapid rises and falls on screen without the EADJ function.



Same signal with the EADJ function.



Printout of the same signal

Accessories and ordering information

Accessories included

Accessories inclu	lucu
	is delivered with 4 screened BNC/Banana safety leads
(2x AG0484), a ma	ins lead and a user's manual.
Optional accesso	ries
AE0189	Carrying bag
HA1255	RS 232 interface for OX 822
SX-METROV3	Data acquisition and processing software
HA1342	Safety probe 1/10 -250 MHz
HA1315	Switchable probe 1/1, 1/10 - 150 MHz
AM0030N	Current probe 100 A AC/DC – 100 mV and 10 mV/A
AM0031N	Current probe 600 A AC/DC -10 mV and 1 mV/A
To order	
OX8062-CFG	Digital differential oscilloscope 2 x 60 MHz
OX8042-CFG	Digital differential oscilloscope 2 x 40 MHz
OX0832-CFG	Analogue differential oscilloscope 2 x 30 MHz
OX0822-CFG	Analogue differential oscilloscope 2 x 20 MHz



ECHNICAL SPECIFICATIONS	OX 8062	OX 8042	OX 832/OX 822
Vertical deviation			
Bandwidth	Analogue: >30 MHz	Analogue: >20 MHz	>30 MHz (OX 832)
	Digital: >60 MHz	Digital: >40 MHz	>20 MHz (OX 822)
Cathode ray tube	14 kV	2 kV	2 kV
Number of channels	2 Differentials	2 Differentials	2 Differentials
	2 BNCs per channel	2 BNCs per channel	2 BNCs per channel
Input impedance	1 MΩ / 12 pF	1 MΩ / 12 pF	1 MΩ / 12 pF
Max. input voltage	600 V Differential	600 V Differential	600 V Differential
Sensitivity	10 mV – 200 V/div.	10 mV – 200 V/div.	10 mV – 200 V/div.
Continuous gain adjustment	1 to 2.5	1 to 2.5	1 to 2.5
Operating modes "Normal"	CH1, CH2, ALT, CHOP,	CH1, CH2, ALT, CHOP,	CH1, CH2, ALT, CHOP,
(CH1, CH2 or CH1 & CH2.)	ADD, MULT, XY	ADD, MULT, XY	ADD, XY
Operating modes "Differential"	CH1, CH2, ALT, CHOP,	CH1, CH2, ALT, CHOP,	CH1, CH2, ALT, CHOP,
(CH1, CH2 or CH1 & CH2)	ADD, MULT, XY	ADD, MULT, XY	ADD ,XY
Horizontal deviation		1.001110211111	
Time bases	1 + Delay	1 + Delay	1 + Delay
Scan speed	Analogue: 20 ns-200 ms/div	Analogue: 50 ns-200 ms/div	1
	Digital: 5 ns-200 s/div	Digital: 5 ns-200 s/div	50 ns-200 ms/div
L.V. expansion (Ana.)	10	10	10
L.V. continuous adjustment (Ana.)	1 to 2.5	1 to 2.5	1 to 2.5
Analogue XY mode	2 MHz	2 MHz	2 MHz
HOLD-OFF	1 to 10	1 to 10	1 to 10
Z modulation	4 MHz	4 MHz	4 MHz
Triggering			
Source	CH1, CH2, ALT, LINE, EXT	CH1, CH2, ALT, LINE, EXT	CH1, CH2, ALT, LINE, EXT
Coupling	AC, DC, LFR, HFR,	AC, DC, LFR, HFR,	AC, DC, LFR, HFR,
	TVV, TVH	TVV, TVH	TVV, TVH
Sensitivity	Int.: 0.7 to 2 div.	Int.: 0.7 to 2 div.	Int.: 0.7 to 2 div.
Distitut manual	Ext.: 100 to 400 mV	Ext.: 100 to 400 mV	Ext.: 100 to 400 mV
Digital memory	Single shot 100 Masm /s	Cingle shot, 100 Masne /s	
Max. sampling rate	Single-shot: 100 Msam./s	Single-shot: 100 Msam./s	-
N A	ETS: 20 Gsam./	ETS: 20 Gsam./s	
Memory capacity	2x (1, 8 or 16K)	2x (1, 8 or 16K)	-
Vertical resolution	8 bits	8 bits	-
Converters	2	2	-
FFT and harmonics analysis	Yes	Yes	-
Glitch mode	20 ns	20 ns	-
Envelope mode	Yes	Yes	-
Triggered Roll Mode	Yes	Yes	-
Digital XY mode	20 MHz	20 MHz	-
Specific features	N N	N/	N N
AUTOSET	Yes	Yes 1/1 , 1/10, 1/100	Yes
Compensation of probe ratios	1/1 , 1/10, 1/100		-
Cursors (analogue and digital)	Vt, 1/t, phase	Vt, 1/t, phase	-
uto. measurements (ana. and digi.)	17	17	-
ENERAL SPECIFICATIONS			
Memorized configuration	1	1	1
8			
READOUT	Yes	Yes	-
Interfaces	RS232C and Centronics		RS232C option = HA1255
Interface drivers	PC + F	_	
Power supply	110-230 V ± 1	110-230 V ± 10% / 50-60Hz	
Dimensions / Weight		435 x 330 x 163 mm / 6.5 kg	
Dimensions / Weight 435 x 330 x 163 mm / 7 kg IEC 61010 safety Cat.III 300 V / Cat.II 600 V Class 1			
IF(61010 satety	Cat III 300 V / (Cat.III 300 V / Cat.II 600 V Class	
Warranty		onths	24 months