

Type of product: **On-site Oscilloscopes**  
Names of products: **OX 5022 & OX 5042**



## The Most Compact Oscilloscopes with **TOTALLY-Isolated Channels** on the Market

The new **HANDSCOPE** portable digital oscilloscopes, designed and developed by **Metrix**, are ideal on-site tools. Simple to use and offering oscilloscope, multimeter and harmonic analyser modes, the **HANDSCOPE**s fit comfortably in one hand.

### **ERGONOMICS**

The 3.5" colour LCD screen with its resolution of 320x240 pixels has LED backlighting to limit power consumption while ensuring that it is easy to read.

The elastomer casing is shockproof and offers IP54 protection. All the control buttons are easily accessible on the instrument's front panel, even when you are wearing safety gloves. A single press on a button is all it takes to access the different instruments, select the channels, adjust settings, choose functions or access the integrated help.

The **HANDSCOPE**s are equipped with **2 channels which are totally isolated from one another with 600 V CAT III safety**. The inputs use metal BNC connection technology which complies with the relevant safety standards.

### **3-IN-1 INSTRUMENT**

There are 2 **HANDSCOPE** oscilloscope models: the **OX 5022** with a bandwidth of **20 MHz** and the **OX 5042** with a bandwidth of **40 MHz**.

In **Oscilloscope mode**, all the functions of a high-performance oscilloscope are available, including 19 automatic measurements. The sampling rate is **2 GS/s** in repetitive mode and **50 MS/s** in one-shot mode on each channel. More complex functions, such as the **MATH** function with automatic scaling and cursor measurements, are also available.

In **Multimeter mode**, the **HANDSCOPE**s offer 2 independent 8,000-count TRMS multimeters for measuring AC, DC and AC+DC voltage and current, resistance, continuity, capacitance, frequency, temperature via K thermocouple or infrared probe, motor rotation with an optical tachometer, diode and component tests, etc.

The Multimeter mode can also be used for **power analysis**. This is done by combining two measurement channels, allowing you to measure single-phase or balanced three-phase power values on systems with or without a neutral.

In **Harmonic Analyser mode**, the analysis is performed on the 2 channels up to the 31st order, with a **fundamental frequency from 40 to 450 Hz**. Simultaneously, the **HANDSCOPE** measures the total



TRMS voltage, the THD and the value of the order selected. In order to improve analysis performance, you can select the fundamental frequency, a very useful feature when the level of one harmonic order is greater than the level of the fundamental.

## APPLICATIONS

HANDSCOPEs are ideal for work on electrical installations and **general maintenance** in the field. The two isolated channels ensure measurement in total safety.

The long time base means in particular that it can be used for synchronization testing.

Examples:

- process synchronization checks
- machine-tool operation tests
- industrial truck repairs

## COMMUNICATION

The HANDSCOPEs can communicate via an isolated optical USB interface with a PC equipped with the SX-METRO application software delivered with the product, opening up a wide range of possibilities:

- display curves in real time
- view stored curves
- control the oscilloscope
- transfer the data and curves into an Excel spreadsheet



## ECO CONCEPTION

From the start, the HANDSCOPEs have benefited from Chauvin Arnoux's voluntary eco-design initiative (Eco Conception in French) in the context of the ISO 14000 standard. The aim is to reduce the environmental impact of the Group's products.

From the design phase in our R&D units in Paris and Annecy through to recycling after use, the life cycle of Chauvin Arnoux's products already complies with the requirements in terms of: choice of recyclable and recoverable materials, reduction of consumption by the products and printed circuit-board size reduction, thus reducing the amounts of raw materials needed.

Press Contact: Fulya HUET  
**Tel:** +33 1 44 85 44 76  
**Fax:** +33 1 46 27 07 48  
*e-mail:* [fulya.hueta@chauvin-arnoux.com](mailto:fulya.hueta@chauvin-arnoux.com)  
[www.chauvin-arnoux.com](http://www.chauvin-arnoux.com)