

CA 922 - CA 942

Oscilloscopes with isolated channels

SIMPLE - PRACTICAL - VERSATILE - EFFECTIVE



20 or 40 MHz oscilloscopeDouble 8,000-count multimeter

Double harmonic analyser

Optimized 3.5" colour LCD screen for maximum visibility

Multilingual interactive online help

Data recording and recovery on PC

Practical with its USB communication using the SCPI protocol

Stand-alone, powered by NiMH rechargeable battery with USB chargerB



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🛩 portable oscill

002.0mV

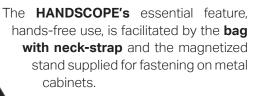
000.0mV

C.A 942

ERGONOMICS

Developed as on-site measuring tools, the **HANDSCOPE** oscilloscopes are particularly easy to use. The shockproof IP54 elastomer casing fits perfectly in one hand. The command keys on the front panel are easily accessible, even when wearing safety gloves, with the keys grouped by function. Multilingual interactive help is available to assist users in doubt without having to refer to the user's manual.

The **colour screen** is particularly easy to read and the **LED backlighting** helps to limit the **HANDSCOPE's** power consumption, with measurement remaining possible while charging.



APPLICATIONS

Compact and fitting in one hand, the **HANDSCOPES** are ideal for operations on electrical installations in the field and general maintenance. Thanks to its isolated channels, users can measure in total safety without any particular precautions. The **HANDSCOPE** is a multifunction measuring instrument (Oscilloscope – Multimeter – Harmonic Analyser) which can be used to Measure – Record and then Analyse the results on a PC with the dedicated SX-METRO software.

- measurement on PWM variable speed drive with display of the waveform in oscilloscope mode,
- power measurement in multimeter mode
- analysis of mains supply disturbances with harmonic analysis



The same connection technology for all the modes: 2 BNC inputs

Accessories: Probe or BNC/banana adapter supplied

oscope with isolated channels

PWM MEASUREMENT KIT

For stable measurements on signals «seen» by the motor at the output from the variable speed drive, a PWM Kit is available.

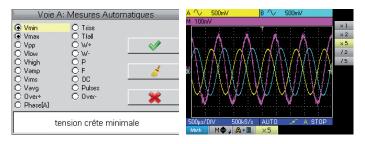
The kit comprises:

- An MLI01 low-pass sensor
- An E27 AC/DC current clamp

PERFORMANCE

COMPLETE OSCILLOSCOPE

On each of the **two isolated channels**, it is possible to select and display automatic measurements chosen among the 19 proposed (Amplitude, Time or Phase). In addition, **MATH** functions can be used to produce a representation over time of a signal derived from the channels by means of a mathematical operation (+,-,x,/ inversion) with automatic scaling.



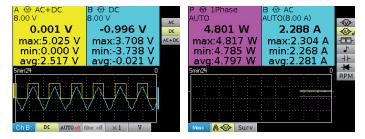
The **Autoset** of the channels is optimized for **synchronization of the signal parameters.** The waveform display can be stabilized very simply by pressing a single "magic" key.

Fast Autoset in <5 s, range >10 Hz from 10 mVpp to 400 Vpp

With its simple or complex edge or pulse triggering and associated HF or LF or Noise filters to optimize display of the waveform, the **HANDSCOPE** offers simple, effective tools which match your needs.

To observe rapid or noise-affected phenomena, several types of acquisition are available: peak detect, averaging or envelope, as well as a time-based zoom.

TWO INDEPENDENT 8,000-COUNT DIGITAL MULTIMETERS



CJust as for the three instrument modes, a single press on the dedicated key gives access to the multimeter mode allowing you to measure AC, DC and AC+DC voltages and currents, resistance, continuity, capacitance, frequency, power (combination of two measurement channels), temperature (K thermocouple or infrared sensor) and motor rotation speed (optical tachometer). The instrument can also be used to test diodes and components.



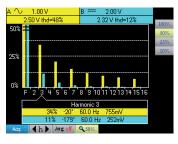
Furthermore, power measurement on single-phase or balanced three-phase systems enables you to determine consumption and observe the trend stored as a .txt file or .BMP screenshot.

2 essential modes for a professional multimeter:

- the surveillance mode can be used to measure the MAX, MIN and AVG values
- the relative mode, which gives the relative value, i.e. the difference between the relative value and real value and the deviation in %.

HARMONIC ANALYSER

Harmonic analysis is performed on **2 channels** up to the 31st order, with a fundamental frequency between 40 and 450 Hz. At the same time, the **HANDSCOPE** measures values of the total VRMS voltage, the THD and the harmonic order selected (%fundamental, phase, frequency, VRMS). This

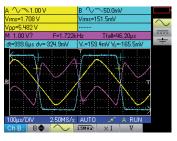


function helps to improve analysis performance and, above all, measurement when the level of a harmonic order is greater than the level of the fundamental.

Screen optimization: the menus disappear automatically if there is no operator action on the keyboard for 20s; you lose nothing on the screen and the waveform view is displayed across the whole width of the screen.

DATA STORAGE - COMMUNICATION & PC SOFTWARE

The **HANDSCOPE** is equipped with an internal memory for saving configurations and recording traces and acquisitions in multimeter mode (2,700 measurements over a period from 5 minutes to one month). It can communicate with a PC via an optically-isolated USB interface.



Using this interface and the SX-METRO software supplied, users can download stored measurements and traces for processing on the PC and export them in formats compatible with office application suites. They can also display the measurements in progress on the **HANDSCOPE** in real time and manage its configurations. In addition, the multimeters' **SX-DMM PC software** can be used to manage the **HANDSCOPE's** multimeter function to process and analyse the data very easily and generate measurement reports.

TECHNICAL SPECIFICATIONS

CA 922

CA 942

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Warranty 3 years	-	-	-
	Warranty	Зу	ears

STANDARD STATE AT DELIVERY

CA 922: Instrument reference P01192200 + 2 BNC-Banana adapters + 2 sets of R/B moulded straight-elbowed PVC 1.5 m + 2 sets of R/B crocodile clips + 2 sets of CAT IV 1000V R/B test probes + Jack-USB cable + USB WALLPLUG + USB optical cable + Bag + Paper Quick Start Guide + Safety datasheet + test report + NiMH battery datasheet

CA 942 : Instrument reference P01194200 + 1 BNC-Banana adapter + 1 set of R/B

moulded straight-elbowed PVC 1.5 m + 1 set of R/B crocodile clips + 1 set of CAT IV 1000V R/B test probes + Jack-USB cable + USB $\overset{\cdot}{\mathsf{WALLPLUG}}+\mathsf{USB}\,\mathsf{optical}\,\mathsf{cable}+\mathsf{Bag}+\mathsf{Paper}$ Quick Start Guide + Safety datasheet + test report + NiMH battery datasheet

Accessories

- A PWM kit = one MLI01 filter + one E27N clamp under the reference P01102188
- The HX0099 calibration software is linked to this project
- Communication kit with jack/USB cable and charger USB P01103080



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