OSCILLOSCOPES HANDSCOPE

MODEL OX 5042

One of the few oscilloscopes on the market with isolated channels that fit into one hand

SPECIFICATIONS

| INTERFACE | | |
|---|---|--|
| Display | 3.5" color TFT LCD screen; Resolution 320 x 240 pixels – LED backlighting | |
| Commands | Direct adjustments on front panel & on-screen menus via browser (principal & secondary without "hidden menus") | |
| Display Mode | 2500 real acquisition points on screen | |
| Display of Curves on Screen | 2 curves + 2 references + memory trace or mathematical calculation | |
| Integrated Interactive Help Function | 11 languages: French, English, German, Spanish, Italian, Swedish, Romanian, Russian, Finnish, Polish, Dutch | |
| OSCILLOSCOPE MODE | | |











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|---|--|-------------------------------------|--|
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| OSCILLOSCOPE MODE | | | |
| Vertical Deflection | | | |
| Bandwidth | 40MHz | | |
| Bandwidth Limiter | 1.5MHz, 5kHz | | |
| Number of Channels | 2 totally isolated channels | | |
| Input Impedance | 1M Ω ±0.5%, approx. 17pF | | |
| Maximum Input Voltage | 600V – Derating -20dB per decade from 100kHz | | |
| Vertical Sensitivity | 5mV to 200V/div | | |
| Horizontal Deflection | | | |
| Sweep Speed | 25ns/div to 200s/div – Roll Mode from 100ms to 200s/div | | |
| Horizontal Zoom | Zoom factor: x1, x2, x5 | | |
| Triggering | | | |
| Mode | Automatic, triggered, one-shot & triggered roll | | |
| Туре | Edge, pulse width (20ns – 20s) | | |
| Coupling | AC or DC (depending on the coupling of the triggering channel) HF, LF or noise rejection | | |
| Sensitive | ≤ 1.2 divisions p-p up to 40MHz | | |
| Digital Memory | | | |
| Maximum Sampling Rate | 2GS/s in ETS mode – 50MS/s in one-shot mode on each channel | | |
| Vertical Resolution | 9 bits | | |
| Memory Depth | 2500 points per channel | | |
| User Storage | 2MB for storing files: trace (.trc), text (.txt), configuration (.cfg), image files (.bmp) | | |
| Glitch Mode | Duration ≥ 20ns – 1250 min/max pairs | | |
| Display Modes | Envelope, Averaging (factors 2 to 64) and XY (vector) | | |
| Other Functions | | | |
| Math Functions | Channel inversion, addition, subtraction, multiplication and division (adjustable scaling) | | |
| Cursor Measurement | 2 cursors: V, T, dV, dt simultaneously – 4-digit display resolution | | |
| Automatic Measurement | 18 time or level measurements and phase measurem | nent | |
| Multimode Mode | O share also 0000 second display a minder of barrows have seen to complicate at 0700 | | |
| General Specifications | 2 channels, 8000-count display + min/max bargraph - Graphic recording of 2700 measurements (5min to 1 month) Absolute or relative display (chapture deviation ref. refl()) Monitoring (instantaneous min may Avg) | | |
| Operating Modes AC, DC & AC+DC Voltages | Absolute or relative display (absolute, deviation, ref, ref%) – Monitoring (instantaneous, min, max, Avg) Ranges from 600mV to 600Vrms, 800mV to 800Vpc – accuracy for Vpc ±1% reading+20D –50kHz bandwidth | | |
| Resistance | | | |
| Capacitance | Range from 80Ω to $32M\Omega$ - accuracy $\pm 2\%$ reading + 10D -10ms quick continuity test Ranges from 5nF to 5mF - basic accuracy $\pm 2\%$ reading + 10D | | |
| Other Measurements | Frequency, rotation speed, 3.3V diode test, temperature measurement (with K-type thermocouple or infrared probe) | | |
| POWER | Trequency, rotation speed, 5.57 diode test, temperature measurement (with K-type | thermocouple of limated probe) | |
| Measurements | Single-phase and balanced three-phase active power values (with or without neutra | al) simultaneous display of current | |
| Harmonic Analyzer Mode | olligio pilaso ana balancea unee pilase activo power values (with or without neutro | in, simultaneous display of current | |
| Multi-Channel Analysis | 2 channels, 31 orders, fundamental frequency from 40 to | 450Hz | |
| Simultaneous Measurements | Total VRMS, THD and selected order (% fundamental, phase, frequency, Vrms) | | |
| GENERAL | is an interest of the second o | | |
| Screenshots | Up to 100 files in standard ".bmp" format, viewable on the i | instrument | |
| PC Communication | Isolated optical USB interface "SX-Metro" PC application software (included) | | |
| Power Supply | 6 LR6 or 6AA NiMH batteries – Battery life up to 8 hrs 3 | 0 mins | |
| | Universal line adapter isolated from the channels – Quick charging | | |
| Safety/EMC | Safety according to IEC61010-1 Ed3 – 600V CAT III / EMC according to Ef | N61000-3 & EN61326-1 | |



www.aemc.com

OSCILLOSCOPES HANDSCOPE

FUNCTIONAL DISPLAYS

FEATURES

- Two isolated channels
- Three instruments in one
 - 40MHz Oscilloscope
 - Double 8000-count TRMS Multimeter / Power Analyzer
 - Harmonic Analyzer
- 3.5" color LCD screen LED backlighting technology
- Integrated interactive multilingual help function
- 2MB recording data
- Store graphic recordings of 2700 measurements (5 min to 1 month)
- · Communication via isolated USB SCPI protocol

PRODUCT INCLUDES

2150.21

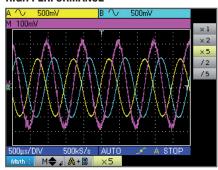
Meter, small classic tool bag, US Wall plug, USB Cable, set of (2) 10 ft color-coded Leads (red/ black), set of (2) color-coded Alligator Clips (red/ black), set of (2) color-coded Probes (red/black), BNC Adapter, (2) Probe 10:1 600V BNC male, 1.2V NiMH rechargeable batteries, Quick Start guide, and a USB thumb drive with software and a user manual.

2150.22

Meter, field case, US Wall plug, USB Cable, set of (2) 10 ft color-coded Leads (red/black), set of (2) color-coded Alligator Clips (red/black), set of (2) color-coded Probes (red/black), BNC adapter, (1) Probe 10:1 600V BNC male, AC Current Probe Model MN251T, MiniFlex® Sensor 3000-24-1-1. 1.2V NiMH rechargeable batteries, Quick Start guide, and a USB thumb drive with software and a user manual.

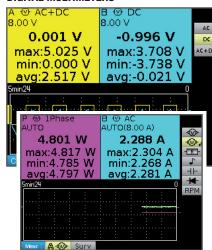
Rev.00 05/2021

HIGH PERFORMANCE



Automatically displays measurements for both isolated channels from your choice of 19 measurement types.

TWO INDEPENDENT 8000-COUNT TRMS **DIGITAL MULTIMETERS**

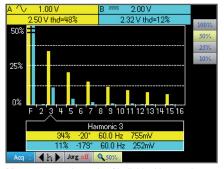


Instantly displays measurements in multimeter mode at the press of a button.

2150.23

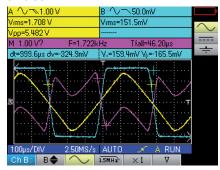
Meter, field case, US Wall plug, USB Cable, Set of (2) 10 ft color-coded Leads (red/ black), set of (2) color-coded Alligator Clips (red/black), set of (2) color-coded Probes (red/black), BNC adapter, 1- Probe 10:1 600V BNC male, AC Current Probe Model MN379T, MiniFlex® Sensor 3000-24-1-1, 1.2V NiMH rechargeable batteries, a Quick Start guide, and a USB thumb drive with software and a user manual.

HARMONIC ANALYZER



Measures two channels of individual harmonic content up to the 31st harmonic.

STORAGE COMMUNICATION & PC SOFTWARE



View real-time measurements on your PC, configure the Handscope, export data to spreadsheet using the SX-Metro included software.



SHOWN: CATALOG #2150.22

| CATALOG NO. | DESCRIPTION |
|-------------|--|
| 2150.21 | Handscope Portable Oscilloscope Model OX 5042 |
| 2150.22 | Handscope Portable Oscilloscope Model OX 5042 w/MN251T & MF 3000-24-1-1 (BNC Output) |
| 2150.23 | Handscope Portable Oscilloscope Model OX 5042 w/MN379T & MF 3000-24-1-1 (BNC Output; Low AC current measurement) |