



## Handscope Portable Multimeter Model OX 5042B

Cat. #2150.21

**2-Channel, 40M Hz**

Two-channel oscilloscope with 40 MHz bandwidth. Also functions as an 8000-count multimeter with power measurements, and a harmonic analyzer to the 31st harmonic. Can store up to 2 MB of recorded data. USB communication enables programming the instrument remotely with the supplied SX-METRO software.

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CHANNELS	
Inputs / Bandwidth	2 X 600 V Isolated channels / 40 MHz
Input Impedance	1 M $\Omega$ $\pm$ 0.5 %, 17 pF
INTERFACE	
Screen Specifications	Color 3.5 in TFT LCD 320 x 240 – LED Backlighting
Display Mode	2500 real acquisition points on screen
Traces On Screen	2 Traces + 2 References + memory trace or Math calculation
Front Panel Control	24 keys
VERTICAL	
Vertical Sensitivity	5 mV to 200 V/div and up to 156 $\mu$ V/div in vertical zoom mode (12-bit converter) – Accuracy $\pm$ 1 %
Max Input Voltage	600 Vrms CAT III – Derating -20 dB per decade from 100 kHz
HORIZONTAL	
Time Base Speed	25 ns/div to 200 s/div. – accuracy 0.1-Roll mode from 100 ms to 200 s/div
Horizontal Zoom	Zoom factor : x1, x2, x5
TRIGGER	
Mode	On all channels: Auto, Triggered, One-shot & trigger Roll
Type	Edge, Pulse width (20 ns to 20 s)
Coupling	AC or DC (dependent of the coupling of the triggering channel)- HF, LF, or noise rejection
Sensitivity	$\leq$ 1.2 divisions p-p up to 40 MHz
DIGITAL MEMORY	
Max. Sampling Rate	2 GS/s in ETS – 50 MS/s in Single Shot Mode on each channel (9 bits)

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)

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<b>Memory Depth</b>	2500 points/channel
<b>Memory Capacity</b>	2 MB for storing various types files: trace, text, configuration, image files
<b>GLITCH Mode</b>	Duration $\geq$ 20 ns – 1,250 MIN Max pairs
<b>Display Modes</b>	Envelope, Averaging (factors 2 to 64) and XY (vector)
<b>OTHER FUNCTIONS</b>	
<b>Math Functions</b>	Channel inversion, +, -, x, / and (adjustable scaling)
<b>Automatic Measurement</b>	18 time, level, phase measurements
<b>Multimeter Mode</b>	2 channels, 8000 counts + Min and Max bargraph – TRMS – graphic recording of 2700 measurements (5 min to 31 days)
<b>AC, DC, AC+DC Voltages</b>	600 mV to 600 VRMS, 800 mV to 800 VDC: accuracy 2% R + 20 cts Bandwidth 50 kHz
<b>Active Power and PF</b>	Single phase-Balanced 3 phase, with or without Neutral, simultaneous display of current
<b>Resistance, Temperature, Capacitance, Frequency, Speed Rotation and Diode Test</b>	
<b>Harmonic Analyzer Mode</b>	
<b>Multi-Channel Analysis</b>	2 channels, 31 orders, fundamental from 40 to 450 Hz
<b>GENERAL FEATURES</b>	
<b>Interface</b>	Isolated USB, SX-Metro software included
<b>Batteries</b>	(6) LR6 or 1.2 V AA NiMH rechargeable batteries, External charger
<b>Charging Time</b>	External power adapter, (98 to 264) VAC (50/60 Hz) 2 hrs 30 min when OFF
<b>Battery life</b>	Up to 8 hrs 30 min
<b>Dimensions (L x W x H)</b>	(8.43 x 4.33 x 2.24) in (214 x 110 x 57) mm
<b>Weight</b>	2.65 lbs. (1.2 kg)
<b>Altitude Operating</b>	2000 m (6560 ft)
<b>Operating Temperature</b>	(32 to 104) °F (0 to 40) °C $\leq$ 80 % RH
<b>Storage Temperature</b>	(-4 to 140) °F (-20 to 60) °C
<b>IP Rating</b>	IP54 per IEC 60529
<b>Safety</b>	IEC/EN 61010-1 (1000 V CAT II; 600 V CAT III), IEC 1326-1



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