Handscope Portable Oscilloscope Model OX 5042B

Cat. #2150.21
2-Channel, 40 MHz
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 programing 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 MΩ ± 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 µV/div in vertical zoom mode (12-bit converter) – Accuracy ± 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	≤ 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

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