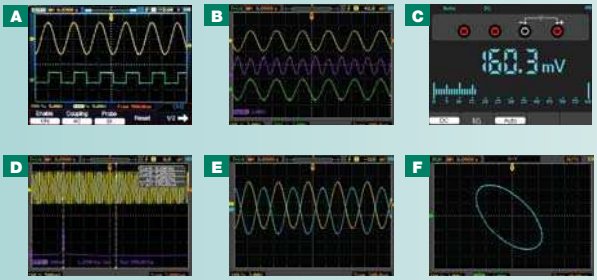
EXTECH INSTRUMENTS
A FLIR COMPANY

PRODUCT DATASHEET

MS6000 Series 2-Channel Digital Oscilloscopes



5.6" (142mm) graphical color LCD for viewing multiple waveforms plus built-in digital multimeter display and analog bargraph.

DISPLAYS:
A. Oscilloscope
B. Dual Channel
C. Multimeter
D. Pass/Fail Test
E. Reference
F. X/Y Format

Features

- Three models to choose from:
  - Model MS6060 — 60MHz bandwidth
  - Model MS6100 — 100MHz bandwidth
  - Model MS6200 — 200MHz bandwidth
- One-touch automatic setup optimizes the position, range, timebase, and triggering to assure a stable display of virtually any waveform
- Easy-to-use pop-up menu with built-in multi-language system
- 23 Automatic Measurements
- Waveform Math: Add, Subtract, Multiply, and Divide
- Store and recall up to 1000 waveform screens and setups using the installed 2G microSD card
- Automatic cursor tracking measurements
- XY Mode
- Built-in FFT function converts a time-domain signal into its frequency components to measure harmonic content and distortion in systems
- Waveform Recorder to capture/replay input waveforms from CH1 and CH2 with a maximum record length of 1000 frames
- Pass-Fail function compares a stored waveform to an unknown input
- Average Mode for smoothing waveforms
- Square Wave Output (2V, 1kHz) for probe adjustment
- Built-in 6,000 count True RMS MultiMeter with analog bargraph
- Complete with two 1X/10X oscilloscope probes, test leads, 7.4V Li-Ion battery, universal AC charger, and carrying case

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CE EN 61010-1 CAT 600V

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Rev. 6/22/12

Specifications	MS6060	MS6100	MS6200
Bandwidth	60MHz	100MHz	200MHz
Sample rate per channel	500MS/s	500MS/s	500MS/s
Risetime	5.8ns	3.5ns	1.8ns
Timebase Range	4ns/div to 40s/div	4ns/div to 40s/div	2ns/div to 40s/div

Common Features/Functions	
Oscilloscope Functions	
Record Length	1M points per channel
Display Size	5.6" (142mm) color LCD; 640 x 480 pixels
Channels	2
Vertical Sensitivity	2mV/div to 5V/div
Vertical Resolution	8 bits
Glitch Capture	Yes
Sample Mode	Normal, Average, Peak Detect
Trigger Modes	Edge, Pulse, Alt, Video, Slope
Trigger Source	CH1, CH2
Trigger Coupling	AC, DC, LF, HF, Noise Reduction
Input impedance	1MΩ/20pF
Max Input Voltage	300V (peak)
Cursor Measurement	Voltage and time; Delta (CH1-CH2)
True RMS MultiMeter Functions	
AC Voltage	60mV, 600mV, 6V, 60V, 600V
DC Voltage	60mV, 600mV, 6V, 60V, 600V, 800V
AC/DC Current	60mA, 600mA, 10A
Resistance	600Ω, 6kΩ, 60kΩ, 600kΩ, 6MΩ, 60MΩ
Capacitance	5nF to 400µF
Diode and Continuity	Yes
Power Supply	3 hours Li-ion rechargeable battery; AC Charger
Dimensions/Weight	9.6 x 6.4 x 2" (245 x 163 x 52mm) / 2.6lbs (1.2kg)

Ordering

MS6060 ..... 60MHz Dual Channel Digital Oscilloscope
MS6100 ..... 100MHz Dual Channel Digital Oscilloscope
MS6200 ..... 200MHz Dual Channel Digital Oscilloscope
BATT-74V ..... 7.4V Li-Ion Replacement Battery
TL620..... 1X/10X 200MHz Oscilloscope Probe
TL625..... High Voltage Oscilloscope Probe 100MHz, 2000V

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