

S2401U
S2405U

50Ms/S, 1MHz Handheld DSO/DMM
50Ms/S, 5MHz Handheld DSO/DMM

50Ms/S, 5MHz Handheld DSO/DMM
with Data Logger

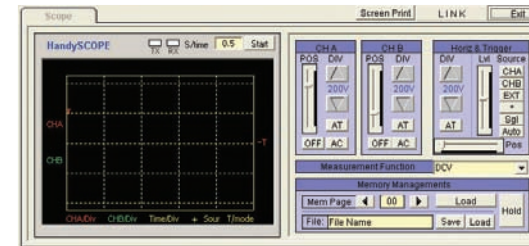
S2505

S2401U S2405U

- Dual Channel
- 50Ms/S sampling rate
- 50mV/Div Vertical sensitivity
- Auto ranging Vertical and Horizontal scales
- Built-in auto/manual ranging, True RMS, 5000 count DMM
- Designed to UL3111, CSA C22.2 No 1010 standards
- Handheld and battery operated
- USB port and supplied software
- User-friendly front panel
- Li-ion Battery pack for long term usage between charging



S2401U
S2405U
S2505



Software Display

S2505

- Dual channel, DC to 5MHz bandwidth Oscilloscope
- Data logging to 17,000 points
- 50 Ms/S sampling rate Single channel and 25 Ms/S Dual channel
- Built in Auto ranging 10,000 count True RMS DMM with Min/Max/AVG, Go-No go and Trend plot
- Auto ranging Vertical and Horizontal scales
- 10MHz Frequency counter
- Li-ion Battery pack for long periods of use between charges
- User friendly front panel
- USB interface with software and cable

SPECIFICATIONS

S2401U S2405U

Oscilloscope Section

- Vertical
Bandwidth: 5MHz S2405U / 1MHz S2401U
Resolution: 8 bits
Number of Channels: 2
Coupling: AC and DC
Input Impedance: 1M Ω
Accuracy: $\pm 3\%$
Max. Input Volts: 600V DC or RMS
Vertical Sensitivity: 50mV to 500V/Div S2405U and 500mV to 500V/Div S2401U in a 1-2-5 sequence
- Horizontal
Real Time Sampling Rate: 50Ms/S Single channel
25Ms/S Dual channel
Record Length: 512 bytes single shot and glitch capture
256 bytes all other modes
Samples/Div: 25 samples
Update Rate: Real time
Modes: Single shot, Roll mode, Normal
Accuracy: $\pm 0.01\%$
Sweep Rate: 1 μ S to 5 Second in a 1-2-5 sequence
- Memory: 16 waveforms and 16 setups may be saved in memory
- Triggering
Trigger Source: Ch A, Ch B and External
Coupling: AC, DC
Trigger Sensitivity: 2/20 Division
Trigger Modes: Auto and Normal
Slope: Positive and Negative

Digital Multimeter Section

- DC Volts
Ranges: 5V, 50V, 500V, 1000V
Best Resolution: 1mV
Accuracy: $\pm(0.3\% + 3d)$
Input Impedance: 1M Ω
- AC Volts
Ranges: 3V, 30V, 300V, 750V
Best Resolution: 1mV

Accuracy: $\pm(0.75\% + 5d)$ 40Hz to 450Hz,
 $\pm(2\% + 5d)$ 450Hz to 5KHz
 $\pm(2.5\% + 5d)$ 5KHz to 20KHz
Input Impedance: 1M Ω

Ohms

Ranges: 5K Ω 50K Ω , 500K Ω , 5M Ω
Best Resolution: 1 Ω
Accuracy: $\pm(0.5\% + 5d)$
Overload Voltage: 600V DC or AC peak

Continuity

Test Voltage: 1.7V
Threshold: 100 digit

Frequency

Ranges: 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz
Best Resolution: 0.01Hz
Accuracy: $\pm(0.05\% + 5d)$
Overload Voltage: 600V DC or AC peak

RPM

Ranges: 240 to 60,000RPM
Resolution: 1RPM
Accuracy: $\pm(0.05\% + 5d)$

Pulse Width

Range: 2 μ S to 500mS (pulse width > 2 μ S)

%Duty Cycle: 25% to 75%

General Specifications

Power: 3.7V Li-ion Battery pack
120V to 5V @ 1Amp DC adapter

Display: 132 x 128 pixel super twist LCD

Size: 7.5"(H) x 3.5"(W) 1.57"(D)

Weight: 1.5 lbs

Standard Accessories: Operating manual, Carrying case,
Test leads, Holster, USB cable and Software, AC/DC
charger and 3.7V Li-ion Battery pack

S2505

Oscilloscope Section

Vertical

Bandwidth: 5MHz
Resolution: 8 bits
Number of Channels: 2
Coupling: AC and DC
Input Impedance: 1M Ω
Accuracy: $\pm 3\%$
Max. Input Volts: 600V DC or AC RMS
Vertical Sensitivity: 50mV to 500V/Div in a 1-2-5 sequence

Horizontal

Sample Rate: 50Ms/S Single channel
25Ms/S Dual channel
Record Length: 512 bytes single shot and glitch capture
256 bytes all other modes
Samples/Div: 25 samples
Update Rate: Real time
Modes: Single shot, Roll mode, Normal
Accuracy: $\pm 0.01\%$
Sweep Rate: 1.0 μ S to 5 Seconds in a 1-2-5 sequence
Memory: 16 waveforms and 16 setups may be saved in memory

Triggering

Trigger Source: Ch A, Ch B and External
Coupling: AC, DC
Trigger sensitivity: 2 to 20 Divisions
Slope: Positive or Negative

Digital Multimeter Section

Data Logger

Data Logger Memory: 17,000 points
Sample Rate: 0.25s/S
Sampling Modes: Peak, Time
Time: Real Time Clock

DC Volts

Ranges: 1000mV, 10V, 100V, 1000V
Best Resolution: 0.1mV
Accuracy: $\pm(0.3\% + 3d)$
Input Impedance: 1M Ω

AC Volts (True RMS)

Ranges: 500mV, 5V, 50V, 500V, 750V
Best Resolution: 0.1mV
Accuracy: $\pm(0.75\% + 5d)$ 40Hz to 450Hz,
 $\pm(2\% + 5d)$ 450Hz to 5KHz
 $\pm(2.5\% + 5d)$ 5KHz to 20KHz
Input Impedance: 1M Ω

Ohms

Ranges: 5K Ω , 50K Ω , 500K Ω , 5M Ω
Best Resolution: 100m Ω
Accuracy: $\pm(0.5\% + 5d)$
Overload Voltage: 600V DC or AC RMS

Continuity:

Test Voltage: 1.7V
Buzzer will sound at < 100 Ω , resistance
Overload Voltage: 600V DC or AC RMS

Frequency

Ranges: 100Hz, 1KHz, 10KHz, 100KHz, 1MHz, 10MHz
Best Resolution: 0.01Hz
Accuracy: $\pm(0.05\% + 5d)$

RPM

Ranges: 240 to 9,999RPM
Resolution: 1RPM
Accuracy: $\pm(0.05\% + 5d)$

Pulse Width

Range: 2 μ S to 500mS (pulse width > 2 μ S)

%Duty cycle: 25% to 75%

General Specifications

Power: 3.7V 1400mAh Li-ion Battery pack
Dimensions: 3.5"(W) x 7.5"(H) x 1.25"(D)
Weight: 1.5 lbs
LCD: 132 x 128 pixel super twist LCD
Standard Accessories:
Test leads, Operating manual, Holster, USB cable
and Software, AC/DC Charger and a 3.7V 1400mAh
Li-ion Battery pack (installed)

Mouser Electronics

Authorized Distributor

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