

# 50MS/s, Hand-Held Scope Meter

Part Nos 01OSS2401 and 01OSS2405

S2401/S2405

[Back to Scope Meter Main Page](#)



**S2401/S2405**

- 1 MHz (S2401), 5MHz (S2405) bandwidth
- Dual Channel
- 50MS/s sampling rate
- 1 mV/Div Vertical sensitivity
- Auto ranging Vertical and Horizontal scales
- Built-in auto/manual ranging 4000 count DMM
- DC to 1MHz bandwidth
- Hand held and battery operated
- Designed to UL3111, CSA C22.2 No 1010 standards
- RS-232 Port and supplied software
- User-friendly front panel

## ■ SPECIFICATIONS

### Vertical (Oscilloscope)

**Bandwidth:** 1 MHz (S2401), 5 MHz (S2405)

**Resolution:** 8 bits

**Number of Channels:** 2

**Coupling:** AC and DC

**Input Impedance:** 1 M $\Omega$

**Accuracy:**  $\pm 3\%$

**Max. Input Volts:** 600V DC or AC rms

**Vertical Sensitivity:** (50mV/Div for S2405, 500mV/Div for S2401) to 500V/Div in a 1-2-5 sequences

### Horizontal (Oscilloscope)

**Sample Rate:**

50 MS/s single channel

25 MS/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 $\mu$ s/Div to 5s/Div in a 1-2-5 sequences

**Memory:** 16 waveforms and setups may be saved in memory

### Triggering (Oscilloscope)

**Trigger source:** CH A, CH B, External

**Coupling:** AC, DC

**Trigger sensitivity:** 2/20 Division

**Trigger Modes:** Auto and Normal

**Slope:** Positive and Negative

### DC Volts

(Digital Multimeter)

**Ranges:** 5V, 50V, 500V, 1000V

**Best Resolution:** 1mV

**Accuracy:**  $\pm (0.3\% + 3D)$

**Input Impedance:** 1M $\Omega$

### 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 20 KHz

**Input Impedance:** 1M $\Omega$

**Max. Input Volts:** 600V DC or AC RMS

### Ohms

**Ranges:** 5K $\Omega$ , 50K $\Omega$ , 500K $\Omega$ , 5M $\Omega$ ,

**Best Resolution:** 1 $\Omega$

**Accuracy:**  $\pm (0.5\% + 5D)$

**Overload Voltage:** 600V DC or AC peak

### Continuity

**Test Voltage:** 1.7V

**Threshold:** 100 digits

**Overload Voltage:** 600V DC or AC peak

### 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

**Range:** 240 to 60,000RPM

**Resolution:** 1 RPM

**Accuracy:**  $\pm (0.05\% + 5D)$

### Pulse Width

**Range:** 2 $\mu$ s to 500ms (pulse width > 2 $\mu$ s)

### Duty Cycle

**Range:** 25% to 75%

### General Specifications

**Power:**

4.8V NiMh battery pack

120V to 9V @ 1Amp DC adapter

**Battery Life:**

4 hours without backlight

3 hours with backlight on

**Display:** 132 x 128 Pixel super twist LCD

**Dimensions:** 7.5" H x 3.5" W 1.57" D

**Weight:** 1.5 lbs.

**Standard Accessories:** Manual, Carrying case, Test leads, Holster, RS-232 cable, Software, AC/DC charger