

TEKTRONIX

MSO24

The Tektronix MSO24 is a 2 Series Mixed Signal Oscilloscope featuring 4 analog channels, an optional 16 digital channels, a highly portable form factor less than 2 inches thick, and a 10.1-inch touchscreen display designed for both benchtop use and field applications.

SPECIFICATIONS

General

Display	10.1-inch TFT-LCD, WXGA (1280 x 800) resolution, capacitive multi-touch
---------	---

Physical

Dimensions (W×H×D)	344 mm × 210 mm × 40.4 mm mm
Weight	1.8 kg kg

Vertical System (Analog)

Number of Analog Channels	4
Analog Bandwidth	70 MHz / 100 MHz / 200 MHz / 350 MHz / 500 MHz (option dependent)
Vertical Resolution	8 bits
Maximum Input Voltage	300 V RMS CAT II

Horizontal System (Timebase)

Maximum Real-time Sample Rate	1.25 GS/s (all channels), 2.5 GS/s (half channels)
Maximum Record Length	10 Mpoints per channel

Integrated Instruments

Arbitrary Function Generator Channels	1 (optional)
AFG Maximum Frequency	50 MHz
Digital Voltmeter Resolution	4-digit AC RMS, DC, and AC+DC RMS
Trigger Frequency Counter Resolution	8-digit

Power Requirements

Battery Operation Support	Optional battery pack with 2 hot-swappable slots
Battery Run Time	Up to 8 hours with two batteries, approx. 4 hours with one battery

Physical Characteristics

Weight with Battery Pack	3.2 kg (7.1 lbs)
VESA Mount Support	100 mm x 100 mm standard VESA interface
Security Lock Slot	Kensington lock slot

Environmental & Compliance

Non-Operating Temperature Range	-20 °C to +60 °C
Operating Humidity Range	5% to 90% RH up to +30 °C; 5% to 60% RH up to +50 °C
Operating Altitude Limit	3,000 m (approx. 9,843 feet)

Digital Pattern Generator

Pattern Generator Channels	4 channels (with option 2-SOURCE)
----------------------------	-----------------------------------

Software & Remote Control

Remote Control Interface	SCPI over USBTMC or Ethernet
--------------------------	------------------------------

Serial Bus Trigger and Analysis

Supported Protocol Options	I2C, SPI, RS-232/422/485/UART, CAN, CAN FD, LIN, SENT, I2S, LJ, RJ, TDM
----------------------------	---

Power Options

Battery Capacity	Holds up to 2 hot-swappable batteries (with option 2-BP)
------------------	--

Environmental & Reliability

Non-Operating Altitude Limit	12,192 m (40,000 ft)
Operating Shock	50 g, 11 ms, half-sine, 3 shocks per direction, 18 total
Operating Vibration	0.31 g RMS, 5 Hz to 500 Hz, 10 min per axis, 3 axes
Non-Operating Vibration	2.46 g RMS, 5 Hz to 500 Hz, 10 min per axis, 3 axes

Compliance

Safety Standards	UL 61010-1, CAN/CSA-C22.2 No. 61010-1, EN 61010-1, IEC 61010-1
Electromagnetic Compatibility (EMC)	EC Council Directive 2014/30/EU, EN 61326-1, EN 61326-2-1

Power

Power Consumption	60 W maximum
DC Input Voltage	24 V DC (±10%)

Vertical System

Vertical Position Range	±5 divisions
Vertical Offset Range	1 mV/div to 50 mV/div: ±1 V; 50.5 mV/div to 500 mV/div: ±10 V; 505 mV/div to 10 V/div: ±100 V

DVM & Counter

Digital Voltmeter Measurement Modes	AC RMS, DC, AC+DC RMS
Digital Voltmeter Sources	Any analog input channel
Frequency Counter Sources	Any analog input channel

File Save Formats

Supported Image Export Formats	PNG, BMP, JPG
--------------------------------	---------------

TECHNOLOGY

Mixed Signal Oscilloscope

APPLICATIONS

Electronic debugging, embedded systems testing, field service, engineering education, and automated test environments

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.