

2 Series MSO

Mixed Signal Oscilloscope Datasheet

On the Bench or in the Field, the Oscilloscope that works where you work



Key performance specifications

Analog input channels

2 or 4 inputs

Bandwidth

70 MHz, 100 MHz, 200 MHz, 350 MHz, and 500 MHz

Sample rate

- · 2.5 GS/s Half channels
- 1.25 GS/s All channels

Record length

10 M points per channel

Vertical resolution

- 8 bits ADC
- Up to 16 bits in high-resolution mode

Standard trigger types

Edge, pulse width, runt, timeout, logic, setup & hold, rise/ fall time, and parallel bus

Standard analysis

- Cursors: Waveform, V bars, H bars, and V&H bars
- Measurements: 36
- Plots: XY, limit mask
- Math: Basic waveform arithmetic, FFT, and advanced equation editor
- · Search: Search on any trigger criteria

Serial trigger, decode and analysis (optional)

I²C, SPI, RS-232/422/485/UART, CAN, CAN FD, LIN, and SENT

Digital input channels (optional)

16 inputs

Arbitrary function generator (optional)

- 50 MHz waveform generation
- Waveform types: Arbitrary, sine, square, pulse, ramp, triangle, DC level, gaussian, lorentz, exponential rise/fall, sin(x)/x, random noise, haversine, and cardiac

Digital pattern generator (optional)

- 4 bit
- User defined, manual, and toggle

Digital voltmeter (optional, available in future)

- · 4-digit AC RMS, DC, and DC+AC RMS voltage measurements
- 5-digit frequency counter

Trigger frequency counter (optional, available in future)

8-digit

Display

- 10.1-inch TFT color
- WXGA (1280 x 800) resolution
- Capacitive (multi-touch) touchscreen

Connectivity

- USB 2.0 Device (1 port)
- USB 2.0 Host
- LAN (10/100 MB/s Base-T Ethernet)

Battery pack (optional)

- · Battery pack with 2 battery slots and hot-swap capability
- Typical usage 8 hours with dual batteries

Remote control

Remotely view and control the oscilloscope over a network connection through remote Virtual Network Computing (VNC).

VESA mount

100 mm x 100 mm VESA interface

Security

Kensington lock

Standard probes

One TPP0200 200 MHz, 10:1 voltage probe per channel

Collaborative tools (optional)

- **TekDrive:** Save and recall waveforms, setups, and screenshots from TekDrive cloud. Share data with other members on the team.
- TekScope: Perform basic instrument control and transfer waveform data to PC. Offline analysis such as protocol decode, automated measurements, etc on saved data.

Warranty

One year standard



Tektronix Next Generation Oscilloscopes

| 2 Series MSO | 3 Series MDO | 4 Series MSO | 5 Series B MSO | 6 Series B MSO |
|--|--------------|--------------|--------------------------------------|--|
| Compact, portable, battery- operated instrument | , , , | | Advanced analysis and up to 8 inputs | Unmatched detail on high- speed signals |



Compact, versatile oscilloscope for daily debug

The 2 Series MSO features up to 4 analog channels, 500 MHz bandwidth, 2.5 GS/s sample rate, 16 channel MSO, 50 MHz AFG, 4-bit digital pattern generator, advanced triggers, protocol decode, DVM, and frequency counter is packed with features, all in a compact form factor about 1.5" thick making it the go-to oscilloscope for electronic debug and test, no matter where you work.

With a capacitive touchscreen and a highly intuitive user interface truly designed for touch, the 2 Series MSO joins the Tektronix family of award-winning next generation oscilloscopes. The shared user interface and the programmatic interface makes it easy to use any Tektronix next generation oscilloscope

The optional battery pack extends the instrument capabilities by enabling the same instrument that is used in the lab to also be used in the field.

A large catalog of compatible probes and well-rounded set of accessories makes the 2 Series MSO the most capable and versatile instrument in its class and suitable for a variety of applications.

Intuitive touchscreen with simplified front panel

The 2 Series MSO offers the same, award-winning user interface as on the higher end Tektronix oscilloscopes and supports touch-interactions that you have come to expect in a touch-enabled consumer device.

- Drag waveforms left/right or up/down to adjust horizontal and vertical position or to pan a zoomed view
- Pinch and expand to change scale or zoom in/out in either horizontal or vertical directions
- Swipe in from the right to reveal the results bar or down from the top to access the menus in the upper left corner of the display



Interact with the capacitive touch display

The simplified front panel retains critical buttons and knobs with colorcoded LED ring lights allowing quick access and easy adjustment of the most frequently used instrument settings.

The membrane switch technology makes it rugged and suitable for use in harsh environments and easy to clean.

| | Run / Stop Single / Seq Clear |
|-----------------------------|---|
| Level | TRIGGER Ready Set to 50% Trig'd Force Mode |
| HORIZONTAL | VERTICAL |
| Position Conter Scale | Position 1 Math Control Center Scale 3 Bus 4 Digital Control Fire |
| Autoset | Default Setup Touch Save |
| AFG/Aux Out | ٢ |

Simplified and intuitive front panel with color coded LED's

The combination of a streamlined front panel with an intuitive touch interface makes it easy for any new engineer to self-discover and begin using the instrument.

An USB mouse and/or a keyboard is also supported and can be used as a third interaction method with the instrument.



Simultaneously view analog channels, decoded serial bus waveform, results table, measurement results, math FFT plot, and cursor readouts along with the setup information for each input with the highly customizable user interface.

Exceptionally easy to use interface with comprehensive analysis for fast insight

The user interface on the 2 Series MSO is designed from the ground up for touch operation. All the key information is presented as a series of badges with visual cues to show association. Get immediate access to instrument configuration or waveform management tasks with a single tap.

The 2 Series MSO offers a revolutionary new stacked display mode in this class, Traditionally all the waveforms were overlayed on a single graticule leading to unwanted tradeoffs:

- Vertical scale and position of each waveform needs to be adjusted so that they do not overlap, resulting in usage of only a small percentage of the ADC range leading to inaccurate measurements.
- Adjusting the waveform vertical scale and position leads to overlap, making it difficult to distinguish details on an individual waveform.

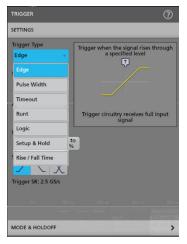
In the stacked display mode, each waveform gets its own slice (additional graticule) representing the full ADC range to enable maximum visibility and accuracy. Groups of channels can also be overlayed to enable visual comparison of signals. The 2 Series MSO offers a comprehensive set of standard analysis tools including:

- Waveform and screen-based cursors with user-selectable readout location.
- 36 automated measurements with measurement statistics and gating, the ability to add an unlimited number of measurements, navigate from one occurrence to the next, and immediate viewing of the minimum or maximum result.
- Basic and advanced waveform math including arbitrary equation editing.
- Basic FFT analysis with options to view magnitude or phase, multiple options to customize window type, gating, and units.

The large display in the 2 Series MSO provides plenty of viewing area not only for signals, but also for plots, measurement results tables, bus decode tables, and more. You can easily resize and relocate the various views to suit your needs.

Triggering

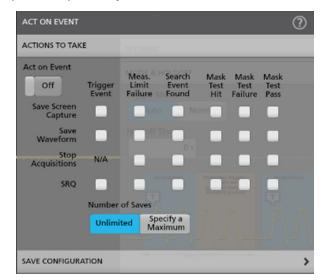
Discovering a device fault is only the first step. Next, you must capture the event of interest to identify root cause. The 2 Series MSO provides a complete set of advanced triggers, including runt, logic, pulse width, triggers, timeout, rise/fall time, setup and hold, serial packet, and parallel data that can be used to capture complex infrequent events.



Configuration menus are accessed by simply double tapping on the item of interest. In this case trigger badge was tapped to open trigger menu

Act on event

Act on event capability built into the instrument enables users to setup the oscilloscope to respond by performing certain actions when a specified condition such as trigger event, measurement limit failure, search event or mask test events occur. This enables easy capture and analysis of rarely occurring events.



An oscilloscope can be automated using the Act on event feature when a certain event occurs

Navigation and search

With up to 10 M point record length, you can capture many events of interest, even thousands of serial packets in a single acquisition, while maintaining high resolution to zoom in on fine signal details.

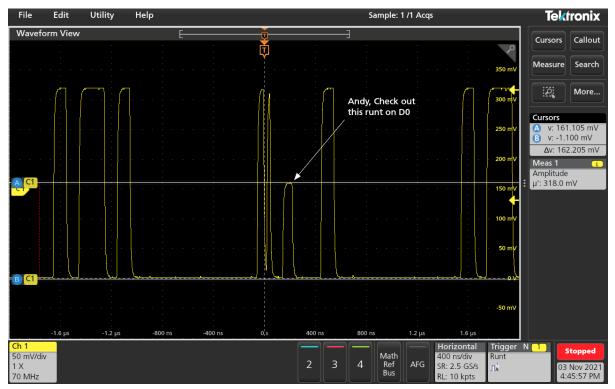
Finding events of interest in a long waveform record can be time consuming without the right search tools.

The search feature allows you to automatically search through your acquisition for user-defined events. All occurrences of the event are highlighted with search marks for easy navigation. Search types include edge, pulse width, timeout, runt, window, logic, setup and hold, rise/fall time, and parallel/serial bus packet content. You can also quickly jump to the minimum and maximum value of search results.

Callouts

Documenting test results and methods are critical when sharing data across a team, recreating a measurement later or delivering a customer report.

With a few taps on the screen, you can create as many custom callouts as needed, enabling you to document the specific details on the waveforms. With each callout, you can customize the text, location, color, font size, and font.



Example of Pulse width trigger used to trigger on a narrow pulse



A bus waveform provides time-correlated decoded packets while the bus decode table presents all the packets from the entire acquisition, search can be used to navigate

Mask testing

Mask testing offers a good way to test the quality of a signal. A mask defines a portion of the oscilloscope display that a signal must not enter. A mask can be defined either based on a golden signal with user defined tolerances or drawing mask segments on the screen.

2 Series MSO provides a comprehensive set of mask tools that allow:

- · Defining test duration in number of waveforms
- Setting a violation threshold that must be met before considering a test failure
- · Counting violations/failures and reporting statistical information
- · Setting actions upon violations, test failure, and test complete



Limit mask test based on golden reference signal

Serial protocol triggering and analysis (optional)

The 2 Series MSO offers a robust set of tools for working with the most common serial buses found in embedded design including I²C, SPI, RS-232/422/485/UART, CAN, CAN FD, LIN, SENT.

The protocol decode and triggering capability is invaluable to trace the flow of activity through a system by observing the traffic on one or more serial buses.

- Serial protocol triggering lets you trigger on specific packet content including start of packet, specific addresses, specific data content, unique identifiers, and errors.
- Bus waveforms provide a higher-level, combined view of the individual signals (for example clock, data, chip enable, etc.) that make up your bus, making it easy to identify where packets begin and end, and identifying sub-packet components such as address, data, identifier, CRC, and so on.
- The bus waveform is time-aligned with all other displayed signals, making it easy to measure timing relationships across various parts of the system under test.
- Bus decode table provides a tabular view of all decoded packets in an acquisition. Packets are time stamped and listed consecutively with columns for each component (address, data, and so on).

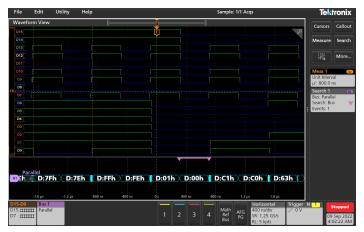


Bus menu provides options to configure the bus parameters

Digital channels (optional)

The 2 Series MSO comes equipped with 16 digital channels. A P6316 digital probe can be used to connect up to 16 signals to the digital inputs of the oscilloscope. The accessories that are included with the probe enable you to connect directly to 8x2 square pin headers. The included flying lead sets and grabbers can be used to clip into surface mount devices or test points offering additional flexibility.

Each digital channel can be viewed separately to see its state. Alternately, several digital channels can be grouped to view them together in a bus form. Symbol tables can also be applied to the bus view to get a higher level view of the bus transactions. Pattern triggering capability can be used to trigger on a pattern of interest.



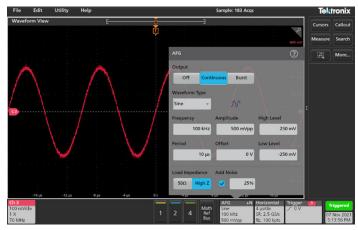
Digital channel trigger and decode

Arbitrary function generator (optional)

The 2 Series MSO includes an optional 50 MHz arbitrary function generator perfect for simulating sensor signals within a design or adding noise to signals to perform margin testing. The AFG output is multiplexed with the Aux out signal.

Several predefined waveforms including sine, square, pulse, ramp/ triangle, DC, noise, sin(x)/x (Sinc), gaussian, lorentz, exponential rise/ fall, Haversine, and cardiac are included.

The arbitrary waveform generator provides 128k points of record for loading waveforms captured on the analog input, a saved file. Alternatively Tektronix ArbExpress PC-based waveform creation and editing software can be used to create complex waveforms quickly and easily.



Flexible settings of AFG outputs. In this test case, 25% of noise was added to the Sine

Digital pattern generator (optional)

A 4-bit digital pattern generator with 2k point record length per bit is included on the 2 Series MSO for generating 4 digital signals at predefined voltage levels.

An output pattern can be loaded in the memory using a predefined CSV file or the state of each output can be manually set to high, low, toggle, or Hi-Z as needed.

| File | Edit | Utility | Help | | | | | Samp | le: 145 A | logs | | Tek | tronix |
|------------------|----------|---------|-------|---------|---|-------------|------------|------------------|----------------|-------------------------------|-----------|----------|----------------------|
| Wavef | orm View | 5. | | E | | , Ū | | | | | | Cursors | Callout |
| | | | | | | Φ | | | | | \sim | | |
| | | | | | | | ÷. | | | | 5.39 V | Measure | Search |
| | | | | | | PATTERN C | SENERATO | | | C | ?) 1.62 V | 12 | More |
| | | | | | | Output | | | | | | | |
| | | | | | | Off | Contin | nuous Bur | t | | 3.85 V | | |
| | | | | | | | | | | | | | |
| | | | | | | Pattern De | finition | Amplitude | | Bit Rate | 3.08 V | | |
| C1 2.30 \ | 2 | | | | | Manual | File | 2.5 V 3.3 V | 5 V | 125 kl | o/s | | |
| | | | | | | | | | | | | | |
| 1.2.3 | | | | | | Pattern Fil | e | | | | 1.54 V | | |
| | | | | | | E:/0-16X1 | 25.csv | | Ψ. | Load | 270 mV | | |
| | | | | | | | | | | | o mv | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1.1.1 | | | | | | | | | | | - 70 mV | | |
| | -80 µs | -60 µs | -40 µ | ε -20 μ | s | | 20 Jo | 40 ps | | | | | |
| Ch 1 770 mV/c | liv | | | | | | Math | | Gen 00 kb/s | Horizontal 20 µs/div | Trigger | | riggered |
| 10 X 500 MHz | | | | Ž | | | Ref Bus | AFG 5 V 0-16X | 125.csv | SR: 1.25 GS/s RL: 250 kpts | | 09 3: | Sep 2022 54:44 AM |

Digital Pattern Generator

Digital voltmeter and frequency counter (optional)

The instrument contains an integrated 4-digit digital voltmeter and 8-digit frequency counter. Any of the analog inputs can be a source for the voltmeter, using the same probes that are already attached for general oscilloscope usage. The frequency counter provides a very precise readout of the frequency of the selected input channel.

Connectivity

The 2 Series MSO contains several ports that you can use to connect the instrument to a network, directly to a PC, or to other test equipment.

- Two USB 2.0 ports enable easy transfer of screenshots, instrument settings, and waveform data to a USB mass storage device. A USB mouse and keyboard can also be attached to USB host ports for instrument control and data entry.
- The USB device port is useful for controlling the oscilloscope remotely from a PC.
- The standard 10/100BASE-T ethernet port enables easy connection to networks and remotely controlling the instrument and viewing the acquired data.

Programmatic interface and backward compatibility

Programmable interface commands can be used to remotely control the instrument through the USB device port or the ethernet port. This enables programming the instrument to perform an automated set of tasks or integrating into a larger system that includes other equipment for performing specific tasks.

The programmatic interface command set is compatible with the next generation of Tektronix oscilloscopes making it easy to reuse code written for other Tektronix oscilloscopes.

The instrument also supports a compatibility mode that, when enabled, makes the 2 Series MSO compatible with the programmatic commands of the legacy TDS2000, TBS1000, and MSO/DPO2000 family of Tektronix oscilloscopes. This compatibility mode makes it easy to replace an older model oscilloscope in an existing test system with the 2 Series MSO.

Battery pack (optional)



Battery pack with two battery slots can be mounted on the back of the instrument

The 2 Series MSO also supports an optional battery pack that provides additional flexibility to perform measurements in areas where there is no AC power available such as testing equipment in the field.

The battery pack has 2 battery slots and can support hot swapping of the batteries during operation to extend run time on batteries.

The batteries are charged when the instrument is on AC power, or they can be charged using an external charger.



Apart from the battery pack several other accessories are available to make the 2 Series MSO suitable for a variety of applications

- · Rack mount kit to mount the instrument in a rack for production
- A bundle of carrying bag, protective rubber case, and kick stand making it easy to carry the instrument into the field
- · Hard travel case for shipping the instrument
- The 100 mm x 100 mm standard VESA interface on the back of the instrument is compatible with a wide variety of accessories



MSO24 mounted on an off the shelf arm



Rackmount kit

External battery charger



Hard carrying case

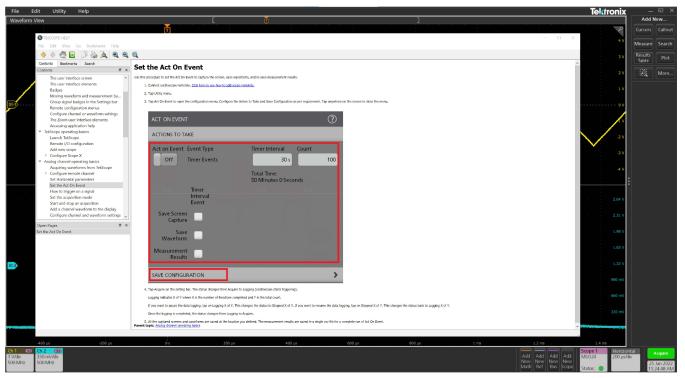


Bundle with carrying bag, kick stand, and protective case

Education features Help when you need it where you need it.

The 2 Series MSO includes several helpful resources so you can get your questions answered rapidly without having to find a manual or go to a website:

- Graphical images and explanatory text are used in numerous menus to provide quick feature overviews.
- All menus include a question mark icon in the upper right that takes you directly to the portion of the integrated help system that applies to that menu.
- A short user interface tutorial is included in the Help menu for new users to come up to speed on the instrument in a matter of a few minutes.



Integrated help answers your questions rapidly without having to find a manual or go to the internet

Feature control

The 2 Series MSO offers new ways to enable educators to devote more time to teaching circuit concepts instead of lab setup and management.

Educators can disable autoset, cursors, and automated measurements on the instruments so that they can teach the students on the basic concepts and help them understand how to use the instruments horizontal and vertical controls to get the waveform display, use the graticule to measure time and voltage and manually plot/calculate the signal characteristics.

TekDrive

The 2 Series MSO is natively integrated with TekDrive collaborative test and measurement data workspace, that allows users to upload, store, organize, search, download, and share any file type from any connected device.

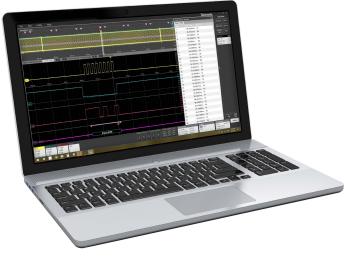
- Seamlessly access your data anywhere
- · Save/Recall directly on instruments
- Inspect, analyze, and report saved data on any device using a browser
- Collaborate seamless with other contributors
- · Integrate into any workflow with scripting using REST API



TekScope PC analysis software

Get the analysis capability of an award-winning oscilloscope on your PC. Analyze waveforms anywhere, anytime.

- Analyze waveforms anywhere without an oscilloscope using the same UI as the oscilloscope
- · Share data with colleagues and customers
- Synchronize waveforms from multiple oscilloscopes on the same screen
- Add advanced analysis capabilities such as spectrum analysis, jitter analysis, and advanced bus decoding.



TekScope software on a PC

Kickstart

2 Series MSO is compatible Kickstart software. Kickstart is a PC based application that enables quick setup and data collection across many types of bench instruments. It also offers a collection of tools for quick and easy interaction and analysis of data.

- Connect and control up to 8 instruments at a time
- Supports SMU's, DMM's, Power Supplies, Oscilloscopes, AFG's, Data loggers, and Senstive instruments
- Automate data collection
- · Save and replicate test configurations
- · Plot collected data for a quick visual inspection of trends
- Export data in different formats



Kickstart multi-instrument controls and analysis

Specifications

All specifications are typical unless noted otherwise. All specifications apply to all models unless noted otherwise.

Model overview

| | MSO22 | MSO24 | |
|---------------------------------------|--------------------------------------|----------------------|--|
| Analog channels | 2 | 4 | |
| Analog channel bandwidth ¹ | 70 MHz, 100 MHz, 200 MHz, 350 MI | Hz, and 500 MHz | |
| Sample rate | 1.25 GS/s All channel, 2.5 GS/s half | channels Interleaved | |
| Record length | 10 M | | |
| Digital channels | 16 | | |
| AFG outputs | 1 (multiplexed with Aux Out) | | |

Vertical system analog channels

| Bandwidth limits (limited by instrument bw) | 20 MHz, 70 MHz, 100 MHz, 200 MHz, 350 MHz, and 500 MHz |
|--|---|
| Input coupling | AC, DC |
| Input impedance | |
| BNC | 1 M Ω ± 1%, 14 pF ± 3 pF |
| TPP0200 probe tip | 10 MΩ, < 12 pF |
| P6139B probe tip | 10 MΩ, < 8 pF |
| Input sensitivity range | 1 mV/div to 10 V/div |
| Vertical resolution | 8 Bit |
| Maximum input voltage | 300 V _{rms} CAT II with peaks < ±425 V |
| | Derate at 20 dB/decade between 4.5 MHz to 45 MHz |
| | Derate at 14 dB between 45 MHz to 450 MHz; above 450 MHz, 5 $\mathrm{V}_{\mathrm{rms}}$ |
| DC gain accuracy ² | ±3% derated at 0.10%/°C above 30 °C |
| Channel to channel isolation | 100:1 <= 100 MHz, 30:1 > 100 MHz |

¹ 500 MHz bandwidth guaranteed from 4 mV/div to 10 V/div.

² Guaranteed, specification valid after 30 minute warm-up and Signal Path Compensation (SPC) at ambient.

| Offset range | 1 mV/div to 63.8 mV/div : +/-1 V |
|--------------|---------------------------------------|
| | 63.9 mV/div to 999.5 mV/div : +/-10 V |
| | 1 V/div to 10 V/div : +/-100 V |

| Vertical system digital cha | nnels |
|-----------------------------|--------------------------------------|
| Input Channels | 16 [D0:D15] |
| Thresholds | Thresholds per set of 8 channels |
| Threshold Selections | TTL, CMOS, ECL, PECL, User-Defined |
| User Defined Range | -15 V to +25 V |
| Minimum detectable pulse | 5 ns |
| Threshold Accuracy | ±180 mV + 2 % of threshold setting |
| Minimum Input Signal Swing | 500 mVp-p |
| Maximum Input Signal Swing | +30 V, -20 V |
| Input Impedance | 100 kΩ 8 pF |
| Vertical Resolution | 1 bit |
| Horizontal system analog | channels |
| Timebase range | 2 ns/div to 1000 s/div (all channel) |

| Trigger system | |
|---------------------------------|---------------------------------------|
| Timebase accuracy ² | ± 25 ppm over any ≥1 ms interval |
| Channel to channel deskew range | -95 ns to +95 ns |
| Timebase delay range | -10 divisions to 5000s |
| innebase range | 1 ns/div to 1000 s/div (half channel) |

Trigger modes

Auto, normal, and single

| Trigger coupling | DC, HF Reject (attenuates > 50 kHz), LF Reject (attenuates < 50 kHz), noise reject (reduces sensitivity) |
|--|--|
| Trigger holdoff range | 0 s to 10 s |
| Trigger sensitivity | Edge type, DC coupled |
| | Any analog input channel: the greater of 6 mV or 0.8 div |
| | Aux In: 500 mVpp to 250 MHz |
| Trigger level ranges | |
| Any input channel | ±5 divisions from center of screen |
| Aux In | ±8 V |
| Trigger frequency counter ³ | Provides frequency readout of triggerable events. |
| Trigger types | |
| Edge | Positive, negative, or either slope on any channel. |
| Pulse Width | Trigger on width of positive or negative pulses. Event can be time- or logic-qualified |
| Timeout | Trigger on an event which remains high, low, or either, for a specified time period. Event can be logic-qualified |
| Runt | Trigger on a pulse that crosses one threshold but fails to cross a second threshold before crossing the first again. Event can be time- or logic-qualified |
| Logic | Trigger when logic pattern goes true, goes false, or occurs coincident with a clock edge. Pattern (AND, OR, NAND, NOR) specified for all input channels defined as high, low, or don't care. Logic pattern going true can b time-qualified |
| Setup/Hold | Trigger on violations of both setup time and hold time between clock and data present on any input channels |
| Rise/Fall | Trigger on pulse edge rates that are faster or slower than specified. Slope may be positive, negative, or either. Event can be logic-qualified |
| Parallel (with MSO option) | Trigger on a parallel bus data value. Parallel bus can be from 1 to 20 bits (from the digital and analog channels in size. Supports binary and hex radices |
| I2C (option) | Trigger on start, repeated start, stop, missing ack, address (7 or 10 bit), data, or address and data on I2C buse up to 10 Mb/s |
| SPI (option) | Trigger on slave select, idle time, or data (1-16 words) on SPI buses up to 20 Mb/s |
| RS-232/422/485/UART (option) | Trigger on start bit, end of packet, data, and parity error up to 15 Mb/s |
| CAN (option) | Trigger on start of frame, type of frame (data, remote, error, or overload), identifier, data, identifier and data, er of frame, missing ack, and bit stuff error on CAN buses up to 1 Mb/s |
| LIN (option) | Trigger on sync, identifier, data, identifier and data, wakeup frame, sleep frame, and error on lin buses up to 1 Mb/s |
| SENT (option) | Trigger on start of packet, fast channel status and data, slow channel message ID and data, and CRC errors |

³ Available in a future release.

Acquisition system modes

| Sample | Acquired sample values |
|------------------------|---|
| Peak Detect | Highest and the lowest sample within the decimation interval |
| Averaging | Average of a series of acquired waveforms up to 10,240 acquisitions |
| Envelope | Min-Max envelope over multiple acquisitions |
| Hi-Res | Applies a unique bandwidth filter for each sample rate that maintains the maximum bandwidth possible for that sample rate while preventing aliasing and removing noise from the oscilloscope amplifiers and ADC above the usable bandwidth for the selected sample rate. |
| Waveform measurements | |
| Cursors | Waveform, V bars, H bars, and V&H bars |
| Automatic measurements | 36, of which an unlimited number can be displayed as either individual measurement badges or collectively in a measurement results table |
| Amplitude measurements | Amplitude, maximum, minimum, peak-to-peak, positive overshoot, negative overshoot, mean, RMS, AC RMS, top, base, and area |
| Time measurements | Period, frequency, unit interval, data rate, positive pulse width, negative pulse width, skew, delay, rise time, fall time, phase, rising slew rate, falling slew rate, burst width, positive duty cycle, negative duty cycle, time outside level, setup time, hold time, duration n-periods, high time, and low time, time to max, and time to min |
| Measurement statistics | Mean, standard deviation, maximum, minimum, and population. Statistics are available on both the current acquisition and all acquisitions |
| Reference levels | User-definable reference levels for automatic measurements can be specified in either percent or units. Reference levels can be set to global for all measurements, per source channel or signal, or unique for each measurement |
| Gating | Screen, cursors, logic, search, or time. specifies the region of an acquisition in which to take measurements. Gating can be set to global (affects all measurements set to global) or local (all measurements can have a unique time gate setting; only one local gate is available for screen, cursors, logic, and search actions). |
| Waveform math | |
| Arithmetic | Add, subtract, multiply, and divide |
| Math Functions | Integrate, differentiate, log 10, log e, square root, exponential, and abs |

| Relational | Boolean result of comparison >, <, ≥, ≤, =, and \neq | | | | | |
|--|---|--|--|--|--|--|
| Logic | AND, OR, NAND, NOR, XOR, and EQV | | | | | |
| FFT | Spectral magnitude ar | Spectral magnitude and phase, and real and imaginary spectra | | | | |
| FFT units | Magnitude: linear and log (dBm) Phase: degrees, radians, and group delay | | | | | |
| FFT window functions | Hanning, rectangular, | hamming, blackman-harris, flatte | op2, gaussian, kaiser-bessel | l, and tekexp | | |
| Search | | | | | | |
| Search Types | | ecords to find all occurrences of logic patterns, setup & hold viola | | | | |
| Search results | Waveform view, result | s table. | | | | |
| Arbitrary function generato | r | | | | | |
| Number of channels | 1 (Multiplexed with Au | x Out) | | | | |
| Operating modes | Continuous, burst | | | | | |
| | Sine, square, pulse, ramp, triangle, dc, noise, sin(x)/x(sinc), gaussian, lorentz, exponential rise, exponential decay, haversine, cardiac, and arbitrary | | | | | |
| Waveforms | | | sinc), gaussian, lorentz, exp | onential rise, exponentia | | |
| | decay, haversine, card | liac, and arbitrary | | - | | |
| | decay, haversine, card | liac, and arbitrary Amplitude range 50 Ω | Amplitude range 1 MΩ | Frequency range | | |
| | decay, haversine, card Signal type Sine | liac, and arbitrary Amplitude range 50 Ω 10 mV to 2.5 V | Amplitude range 1 MΩ 20 mV to 5 V | Frequency range 0.1 Hz to 50 MHz | | |
| | decay, haversine, card Signal type Sine Square | liac, and arbitrary Amplitude range 50 Ω 10 mV to 2.5 V 10 mV to 2.5 V | Amplitude range 1 MΩ20 mV to 5 V20 mV to 5 V | Frequency range | | |
| | decay, haversine, card Signal type Sine Square Pulse | Amplitude range 50 Ω 10 mV to 2.5 V | Amplitude range 1 MΩ 20 mV to 5 V | Frequency range0.1 Hz to 50 MHz0.1 Hz to 20 MHz0.1 Hz to 20 MHz | | |
| | decay, haversine, card Signal type Sine Square Pulse Ramp | liac, and arbitrary Amplitude range 50 Ω 10 mV to 2.5 V 10 mV to 2.5 V | Amplitude range 1 MΩ 20 mV to 5 V | Frequency range0.1 Hz to 50 MHz0.1 Hz to 20 MHz | | |
| | decay, haversine, card Signal type Sine Square Pulse | Amplitude range 50 Ω 10 mV to 2.5 V | Amplitude range 1 MΩ 20 mV to 5 V | Frequency range0.1 Hz to 50 MHz0.1 Hz to 20 MHz0.1 Hz to 20 MHz | | |
| | decay, haversine, card Signal type Sine Square Pulse Ramp DC Level | Amplitude range 50 Ω 10 mV to 2.5 V | Amplitude range 1 MΩ 20 mV to 5 V | Frequency range 0.1 Hz to 50 MHz 0.1 Hz to 20 MHz 0.1 Hz to 20 MHz 0.1 Hz to 500 KHz | | |
| | decay, haversine, card Signal type Sine Square Pulse Ramp DC Level Gaussian | liac, and arbitrary Amplitude range 50 Ω 10 mV to 2.5 V | Amplitude range 1 MΩ 20 mV to 5 V | Frequency range 0.1 Hz to 50 MHz 0.1 Hz to 20 MHz 0.1 Hz to 20 MHz 0.1 Hz to 500 KHz 0.1 Hz to 500 KHz 0.1 Hz to 5 MHz | | |
| | decay, haversine, card Signal type Sine Square Pulse Ramp DC Level Gaussian Lorentz | Amplitude range 50 Ω 10 mV to 2.5 V 10 mV to 1.25 V 10 mV to 1.25 V 10 mV to 1.25 V | Amplitude range 1 MΩ 20 mV to 5 V 20 mV to 2.4 V | Frequency range 0.1 Hz to 50 MHz 0.1 Hz to 20 MHz 0.1 Hz to 20 MHz 0.1 Hz to 500 KHz 0.1 Hz to 500 KHz 0.1 Hz to 5 MHz 0.1 Hz to 5 MHz 0.1 Hz to 5 MHz | | |
| Waveforms Amplitude and frequency range | decay, haversine, card Signal type Sine Square Pulse Ramp DC Level Gaussian Lorentz Haversine | Amplitude range 50 Ω 10 mV to 2.5 V 10 mV to 1.25 V | Amplitude range 1 MΩ 20 mV to 5 V 20 mV to 2.5 V 20 mV to 2.5 V 20 mV to 2.5 V | Frequency range 0.1 Hz to 50 MHz 0.1 Hz to 20 MHz 0.1 Hz to 20 MHz 0.1 Hz to 500 KHz 0.1 Hz to 5 MHz | | |
| | decay, haversine, card Signal type Sine Square Pulse Ramp DC Level Gaussian Lorentz Haversine Exponential | Amplitude range 50 Ω 10 mV to 2.5 V 10 mV to 1.25 V | Amplitude range 1 MΩ 20 mV to 5 V 20 mV to 2.5 V | Frequency range 0.1 Hz to 50 MHz 0.1 Hz to 20 MHz 0.1 Hz to 20 MHz 0.1 Hz to 500 KHz 0.1 Hz to 5 MHz 0.1 Hz to 5 MHz | | |

| Signal type | Amplitude range 50 Ω | Amplitude range 1 M Ω | Frequency range |
|-------------|-----------------------------|------------------------------|------------------|
| Arbitrary | 10 mV to 2.5 V | 20 mV to 5 V | 0.1 Hz to 25 MHz |

| DC offset | |
|---------------------------------|---|
| DC offset range | ± 2.5 V into Hi-Z, ± 1.25 V into 50 Ω |
| DC offset resolution | 1 mV into Hi-Z, 500 uV into 50 Ω |
| DC offset accuracy ² | ±[(1.5% of absolute offset voltage setting) + 1 mV] |
| Digital pattern generator | |
| Number of channels | 4 |
| Pattern memory length | 4 K bits |
| Output amplitude | 2.5 V, 3.3 V, 5 V (Continuous Mode) |
| | 5 V (Burst Mode) |
| Bit Rate | 1 bps to 25 Mbps |
| Digital voltmeter and freq | uency counter |
| Available in a future release. | |
| Source | Ch1, Ch2, Ch3, Ch4 |
| Measurement types | AC _{rms} , DC _{rms} , and AC+DC _{rms} |
| Resolution | Voltage: 4 digits |
| | Frequency: 5 digits |
| Vertical settings auto range | Automatic adjustment of vertical settings to maximize measurement dynamic range |
| Display | |
| Display type | 10.1 Inch LCD capacitive touch display |
| Display resolution | 1280 x 800 |
| Display modes | Overlay |
| | Stacked |
| | |

| Zoom | Horizontal and vertical zoor | ning is supported in all waveform and plot views. |
|---|---|---|
| Interpolation | Sin(x)/x and linear | |
| Waveform styles | Vectors, dots, variable pers | istence, and infinite persistence |
| Graticules | Movable and fixed graticule | es, selectable between grid, time, full, and none |
| Color palettes | Normal and inverted for scr Individual waveform colors | • |
| Format | YT, XY | |
| Language support | English, Japanese, Simplifi Russian, Korean | ed Chinese, Traditional Chinese, French, German, Italian, Spanish, Portuguese, |
| Input/Output ports | | |
| USB interface | Two USB 2.0 host ports One USB device port (provi | iding USBTMC support) |
| Ethernet interface | One ethernet port, 10/100 N | Mb/s, and 1000 Mbps ethernet (in full duplex mode only) |
| Probe compensation signal | | |
| Amplitude | 0 to 2.5 V | |
| Frequency | 1 kHz | |
| Source impedance | 1 kΩ | |
| Aux out Front panel BNC connector multiplexe negative pulse when oscilloscope trigg | | multiplexed with AFG out. Output can be configured to provide a positive or scope triggers. |
| | Characteristics | Limits |
| | Vout (HI) | \geq 2.5 V open circuit; \geq 1.0 V into a 50 Ω load to ground. |
| | Vout (LO) | \leq 0.7 V into a load of \leq 4 mA; \leq 0.25 V into a 50 Ω load to ground. |
| Aux input | 300 V _{rms} CAT II with peaks | ≤ ±425 V |
| | | |

| VESA mount | Standard (VESA MIS-D 100) 100 mm x 100 mm VESA mounting points on rear of instrument |
|----------------------|---|
| Ground lug | Provides a safe ground return path when the instrument is operating on battery. |
| Software | |
| VNC | Remotely control and view the screen on the instrument |
| IVI Driver | Provides a standard instrument programming interface for common applications such as LabVIEW, LabWindows/CVI, Microsoft .NET, and MATLAB. Compatible with python, C/C++/C# and many other languages through VISA. |
| TekScope | TekScope brings the power of the oscilloscope analysis environment to the PC. You can have the flexibility to perform analysis tasks including serial decode, power analysis, timing, eye, and jitter analysis outside the lab. Visit www.tek.com/software/tekscope-pc-analysis-software to learn more. |
| TekDrive | Upload, store, organize, search, download, and share any file type from any connected device. TekDrive is natively integrated into the 2 Series MSO for seamless sharing and recalling of files - no USB stick is required. Visit www.tek.com/software/tekdrive to learn more. |
| Programming examples | Programming with the 2/4/5/6 Series platforms has never been easier. With a programmers manual and a GitHub site you have many commands and examples to help you get started remotely automating your instrument. See <i>github.com/TEKTRONIX/PROGRAMMATIC-CONTROL-EXAMPLES</i> |
| Power | |
| Line power | 100 - 240 V ± 10% at 50 Hz to 60 Hz |
| AC Adapter output | 24 V DC, 2.71 A |
| Power consumption | 60 W (max) |
| Battery | |
| Battery power | Requires Opt 2-BATPK or 2-BP battery pack, with 2 slots for batteries Supports up to 2 TEKBAT-01 Li-lon rechargeable batteries |
| Cell chemistry | Li-lon |
| Nominal capacity | 6700 mAh |
| Voltage | 14.52 VDC |
| Weight | 450 g/1lb |

| Operating time, typical | Up to 4 hours single battery Up to 8 hours dual batteries Hot swappable |
|---|--|
| Physical characteristics Dimensions Instrument only | |
| Height | 210 mm (8.26 in) |
| Width | 344 mm (13.54 in) |
| Depth | 40.4 mm (1.59 in) |
| Instrument with battery pack | |
| Height | 210 mm (8.26 in) |
| Width | 344 mm (13.54 in) |
| Depth | 78 mm (3.07 in) |
| Weight | |
| Instrument only | 1.8 kg (4 lbs) |
| Instrument with battery pack | 3.2 kg (7 lbs) – one battery |
| | 3.6 kg (8 lbs) – two batteries |
| Rackmount configuration | 5U |
| Cooling clearance | 2 in required on left side, right side and rear of the instrument |
| EMC, environmental, and Temperature | safety |
| Operating | 0 °C to +50 °C (+32 °F to 120 °F) |
| Operating battery | 0 °C to 45 °C (+32 °F to 113 °F) |
| Non-operating | -20 °C to +60 °C (-4 °F to 140 °F) |
| Humidity | |
| Operating | 5% to 90% relative humidity at temperatures up to +30 °C, 5% to 60% relative humidity at temperatures greater than +30 °C and up to +50 °C. |
| Non-operating | 5% to 90% relative humidity at temperatures up to +30 °C, 5% to 60% relative humidity at temperatures greater than +30°C and up to +60 °C. |

| Operating | Up to 3,000 meters (9,842 feet) | |
|---------------|--|--|
| Non-operating | Up to 12,000 meters (39,370 feet) | |
| Regulatory | CE marked for the European Union and UL approved for the USA and Canada RoHS compliant | |

Ordering information

Use the following steps to select the appropriate instrument and options for your measurement needs.

Step 1 – Select instrument model

Select the 2 Series instrument model

| Model | Description |
|-------|---|
| MSO22 | Mixed Signal Oscilloscope: 2 analog channels, 2.5 GS/s sample rate, 10 Mpts record length |
| MSO24 | Mixed Signal Oscilloscope: 4 analog channels, 2.5 GS/s sample rate, 10 Mpts record length |

Each model includes

- TPP0200 200 MHz, 10:1 probe (one per channel)
- Instrument stand
- Installation and safety manual (translated in English, Japanese, and Simplified Chinese)
- Embedded help
- External power supply
- · Calibration certificate documenting traceability to National Metrology Institute(s) and ISO9001/ISO17025 quality system registration
- One-year warranty covering all parts and labor cost on the instrument. One-year warranty covering all parts and labor cost on included probes

Step 2 – Configure bandwidth (required)

Configure your oscilloscope by selecting the analog channel bandwidth you need. You can also upgrade the bandwidth later by purchasing an upgrade option.

| Bandwidth option | Bandwidth range |
|------------------|-----------------|
| 2-BW-70 | 70 MHz |
| 2-BW-100 | 100 MHz |
| 2-BW-200 | 200 MHz |
| 2-BW-350 | 350 MHz |
| 2-BW-500 | 500 MHz |

Step 3 – Add functionality

Additional functionality can be ordered with the instrument or later as an upgrade kit.

| Probes option | Description |
|---------------|---|
| 2-P6139B | Add 500 MHz, 10x probes (one per channel) |
| 2-MSO | Add MSO function with 16 digital channels; includes P6316 digital probe and accessories |
| 2-BATPK | Battery pack with 2 battery slots and 1 battery (ships with instrument) for use with 2 Series oscilloscopes |

Step 4 – Add instrument software functionality with one of the option bundles

Option bundles with different levels of functionality are being offered to suit different application needs.

| Feature | Description |
|------------|---|
| 2-SOURCE | AFG (Arbitrary Function Generator) and DPG (Digital Pattern Generator) |
| 2-SERIAL | I ² C, SPI, UART, CAN, CAN-FD, SENT, LIN serial trigger and analysis |
| 2-ULTIMATE | 2-SOURCE, 2-SERIAL |

Step 5 – Add additional probes and adapters

Add additional recommended probes and adapters

| Passive voltage probes | Description |
|------------------------|---|
| TPP0100 | 100 MHz bandwidth, 10x attenuation, BNC interface |
| TPP0200 | 200 MHz bandwidth, 10x attenuation, BNC interface |
| P2221 | 6 MHz to 200 MHz bandwidth, 1x / 10x attenuation, BNC interface |
| P5050B | 500 MHz bandwidth, 10x attenuation, BNC interface |
| P6139B | 500 MHz bandwidth, 10x attenuation, BNC interface |
| P6101B | 15 MHz bandwidth, 1x attenuation, BNC interface |
| P3010 | 100 MHz bandwidth, 10x attenuation, BNC interface |
| THP0301 | 300 MHz bandwidth, 10x attenuation, BNC interface |

| Current probes | Description |
|----------------|--------------------------------------|
| TCPA300 | Current probe Amplifier |
| /w TCP312A | DC to 100 MHz, 1 mA |
| /w TCP305A | DC to 50 MHz, 5 mA |
| /w TCP303 | DC to 15 MHz, 5 mA |
| TCPA400 | Current probe amplifier |
| /W TCP404XL | DC to 2 MHz, 1 A |
| TCP2020 | DC to 50 MHz, 10 mA |
| A622 | DC to 100 KHz |
| P6021A | 120 Hz to 60 MHz, 2 mA/mV, 10 mA/mV |
| P6022 | 935 Hz to 120 MHz, 1 mA/mV, 10 mA/mV |
| TRCP3000 | 1 Hz to 16 MHz, 2 mV/A |
| TRCP0600 | 12 Hz to 30 MHz, 10 mV/A |
| TRCP0300 | 9 Hz to 30 MHz, 20 mV/A |
| CT1 | 25 KHz to 1 GHz, 5 mV/mA |
| CT2 | 1.2 KHz to 200 MHz, 5 mV/mA |
| CT6 | 250 KHz to 2 GHz, 5 mV/mA |

| High voltage single ended probe | Description |
|---------------------------------|-------------------------------------|
| P5100A | 500 MHz Bandwidth, 100x attenuation |
| Table continued | |

| High voltage single ended probe | Description |
|---------------------------------|-------------------------------------|
| P6015A | 75 MHz Bandwidth, 1000x attenuation |
| P5122 | 200 MHz Bandwidth, 100x attenuation |
| P5150 | 500 MHz Bandwidth, 50x attenuation |

| High voltage differential probe | Description | |
|---------------------------------|--|--|
| P5200A | 50 MHz Bandwidth, 50:1/500:1 attenuation | |

| Digital probe | Description |
|---------------|--|
| P6316 | 16 channel digital probe for MSO functionality |

Step 6 – Select accessories

Add additional recommended accessories

| Optional accessories | Description | |
|----------------------|--|--|
| 2-BP | Battery pack with 2 battery slots and 1 battery for use with 2 Series MSO (ships separately) | |
| TEKBAT-01 | Additional battery for use with battery pack 2-BP or Opt 2-BATPK | |
| TEKCHG-01 | Standalone battery charger for charging TEKBAT-01 battery | |
| 2-RK | Rackmount kit | |
| 2-PC | Carrying bag with kickstand and protective case for instrument | |
| 2-HC | Hard carrying case | |
| 119-9725-XX | Additional AC/DC power supply | |

Step 7 – Select power cord option

| Optional accessories | Description |
|----------------------|--|
| A0 | North America power plug (115 V, 60 Hz) |
| A1 | Universal Euro power plug (220 V, 50 Hz) |
| A2 | United Kingdom power plug (240 V, 50 Hz) |
| A3 | Australia power plug (240 V, 50 Hz) |
| A5 | Switzerland power plug (220 V, 50 Hz) |
| A6 | Japan power plug (100 V, 50/60 Hz) |
| A10 | China power plug (50 Hz) |
| A11 | India power plug (50 Hz) |
| A12 | Brazil (60 Hz) |
| A99 | No power cord |
| E1 | Universal euro bundle |

Step 8 – Select service options

Protect your investment and your uptime with a service package for your 2 Series MSO.

Optimize the lifetime value of your purchase and lower your total cost of ownership with a calibration and extended warranty plan for your 2 Series MSO. Plans range from standard warranty extensions covering parts, labor, and 2-day shipping to Total Product Protection with repair or replacement coverage from wear and tear, accidental damage, ESD or EOS. See the below table for specific service options available on the 2 Series MSO family of products. Compare factory service plans www.tek.com/en/services/factory-service-plans.

Additionally, Tektronix is a leading accredited calibration services provider for all brands of electronic test and measurement equipment, servicing more than 140,000 models from 9,000 manufacturers. With 100+ labs worldwide, Tektronix serves as a global partner, delivering tailored whole-site calibration programs with OEM quality at a market price. View whole site calibration service capabilities www.tek.com/en/services/ calibration-services.

| Service options | Description |
|-----------------|--|
| R3 | Standard warranty extended to 3 years. Covers parts, labor cost, and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the process |
| R5 | Standard warranty extended to 5 years. Covers parts, labor cost, and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates. Hassle free - a single call starts the process |
| Т3 | Three year total protection plan, includes repair or replacement coverage from wear and tear, accidental damage, ESD or EOS plus preventative maintenance. Including a 5 day turnaround time and priority access to customer support |
| Τ5 | Five year total protection plan, includes repair or replacement coverage from wear and tear, accidental damage, ESD or EOS plus preventative maintenance. Including a 5 day turnaround time and priority access to customer support |
| C3 | Calibration service 3 years. Includes traceable calibration or functional verification where applicable, for recommended calibrations. Coverage includes the initial calibration plus 2 years calibration coverage. |
| C5 | Calibration service 5 years. Includes traceable calibration or functional verification where applicable, for recommended calibrations. Coverage includes the initial calibration plus 4 years calibration coverage. |
| D1 | Calibration data report |
| D3 | Calibration data report 3 years (with option C3) |
| D5 | Calibration data report 5 years (with option C5) |

Ordering information post purchase

The 2 Series products offer many options to easily add functionality after the initial purchase.

Bandwidth upgrades after purchase

The analog bandwidth of the 2 Series MSO can be upgraded after the initial purchase. Bandwidth upgrades are purchased based on the current bandwidth and the desired bandwidth. All bandwidth upgrades can be performed in the field by installing a license.

| Supported model | Bandwidth option | Bandwidth before upgrade | Bandwidth after upgrade |
|-----------------|------------------|--------------------------|-------------------------|
| MSO22 | SUP2-BW70T100-2 | 70 MHz | 100 MHz |
| | SUP2-BW70T200-2 | 70 MHz | 200 MHz |
| | SUP2-BW70T350-2 | 70 MHz | 350 MHz |
| | SUP2-BW70T500-2 | 70 MHz | 500 MHz |
| | SUP2-BW100T200-2 | 100 MHz | 200 MHz |
| | SUP2-BW100T350-2 | 100 MHz | 350 MHz |
| | SUP2-BW100T500-2 | 100 MHz | 500 MHz |
| | SUP2-BW200T350-2 | 200 MHz | 350 MHz |
| | SUP2-BW200T500-2 | 200 MHz | 500 MHz |
| MSO24 | SUP2-BW70T100-4 | 70 MHz | 100 MHz |
| | SUP2-BW70T200-4 | 70 MHz | 200 MHz |
| | SUP2-BW70T350-4 | 70 MHz | 350 MHz |
| | SUP2-BW70T500-4 | 70 MHz | 500 MHz |
| | SUP2-BW100T200-4 | 100 MHz | 200 MHz |
| | SUP2-BW100T350-4 | 100 MHz | 350 MHz |
| | SUP2-BW100T500-4 | 100 MHz | 500 MHz |
| | SUP2-BW200T350-4 | 200 MHz | 350 MHz |
| | SUP2-BW200T500-4 | 200 MHz | 500 MHz |

Instrument functionality upgrade with one of the option bundles

Option bundles with different levels of functionality are being offered to suit different application needs.

| Feature | Description |
|------------|---|
| 2-SOURCE | AFG (Arbitrary Function Generator) and DPG (Digital Pattern Generator) |
| 2-SERIAL | I ² C, SPI, UART, CAN, CAN-FD, SENT, LIN serial trigger and analysis |
| 2-ULTIMATE | 2-SOURCE, 2-SERIAL |
| SUP2-MSO | Add MSO function with 16 digital channels; includes P6316 digital probe and accessories |

Additional software for extended functionality

Purchase additional software with flexible licensing to extend the capabilities of your instrument for collaboration and offline analysis. Option bundles with different levels of functionality are being offered to suit different application needs. Each of these bundles can be purchased as a 1-year subscription or as a perpetual license.

| Software option | Description |
|--------------------|---|
| TEKSCOPE-STARTER | TekScope PC software bundles for various applications |
| TEKSCOPE-PRO-AUTO | |
| TEKSCOPE-PRO-SR | |
| TEKSCOPE-PRO-PWR | |
| TEKSCOPE-PRO-MIL | |
| TEKSCOPE-ULTIMATE | |
| TEKDRIVE-STARTER | TekDrive software for T&M workspace collaboration |
| TEKDRIVE-PRO | |
| TEKDRIVE-ULTIMATE | |
| KICKSTART-SUITE | Kickstart instrument control and data analysis software |
| KICKSTART-AFG | |
| KICKSTART-DL | |
| KICKSTART-DMM | |
| KICKSTART-IVC | |
| KICKSTART-PS | |
| KICKSTART-SCOPE | |
| KICKSTART-HRMA2 | |
| KICKSTART-ACT1/2/5 | |



Tektronix is ISO 14001:2015 and ISO 9001:2015 certified by DEKRA.



Product Area Assessed: The planning, design/development and manufacture of electronic Test and Measurement instruments.

ASEAN / Australasia (65) 6356 3900 Belgium 00800 2255 4835* Central East Europe and the Baltics +41 52 675 3777 Finland +41 52 675 3777 Hong Kong 400 820 5835 Japan 81 (120) 441 046 Middle East, Asia, and North Africa +41 52 675 3777 People's Republic of China 400 820 5835 Republic of Korea +822 6917 5084, 822 6917 5080 Spain 00800 2255 4835* Taiwan 886 (2) 2656 6688 Austria 00800 2255 4835* Brazii +55 (11) 3759 7627 Central Europe & Greece +41 52 675 3777 France 00800 2255 4835* India 000 800 650 1835 Luxembourg +41 52 675 3777 The Netherlands 00800 2255 4835* Poland +41 52 675 3777 Russia & CIS +7 (495) 6647564 Sweden 00800 2255 4835* United Kingdom & Ireland 00800 2255 4835* Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777 Canada 1 800 833 9200 Denmark +45 80 88 1401 Germany 00800 2255 4835* Italy 00800 2255 4835* Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90 Norway 800 081098 Portugal 80 08 12370 South Africa +41 52 675 3777 Switzerland 00800 2255 4835* USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

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