

► Oscilloscope selection made easy













	4000 Series (MS04000, DP04000)	TDS3000B Series	TPS2000 Series	TDS2000B Series	TDS1000B Series	THS700 Series
Channels	Analog 2,4 Digital 16*5	2, 4 -	2, 4 Isolated –	2, 4 -	2 -	2 Isolated –
Bandwidth	350 MHz to 1 GHz	100 MHz to 500 MHz	100 MHz to 200 MHz	60 MHz to 200 MHz	40 MHz to 100 MHz	100 MHz to 200 MHz
Rise Time	1.0 ns to 350 ps	3.5 ns to 700 ps	3.5 ns to 2.1 ns	5.8 ns to 2.1 ns	8.4 ns to 3.5 ns	3.5 ns to 1.75 ns
Sample Rate (Real-time)	2.5 GS/s to 5 GS/s	1.25 GS/s to 5 GS/s	1 GS/s to 2 GS/s	1 GS/s to 2 GS/s	500 MS/s to 1 GS/s	500 MS/s to 1 GS/s
Record Length (Max)	10 M	10 k	2.5 k	2.5 k	2.5 k	2.5 k
Digital Channel Characteristics	Main: 500 MS/s, 10 M record length MagniVu™: 16.5 GS/s ^s , 10 k record length (centered at the trigger) ^s	-	-	-	-	-
Trigger Types	Edge, Sequence, Logic, Pulse (Width, Runt), Multi-channel Set-up and Hold Rise/Fall Time, Video, I°C², SPI², CAN², RS-232²², Parallel*5	Edge, Logic, Pulse, Video, , Comm ¹	Edge, Pulse, Video	Edge, Pulse, Video	Edge, Pulse, Video	Edge, Pulse, Video, Motor
Connectivity and Storage	USB host for storage and direct printing, USB device for PC connectivity CompactFlash, LAN, (10/100Base-T Ethernet), GPIB*2	Ethernet (10Base-T), Centronics, RS-232°, GPIB° ² , Floppy Disk	RS-232, Centronics, CompactFlash	USB host for storage, USB device for PC connectivity or direct print, GPIB ²	USB host for storage, USB device for PC connectivity or direct print, GPIB ^{*2}	RS-232
Waveform Math and Analysis	Waveform math (+, -, x, /), FFT, Arbitrary expression math, Connect to a PC for extended analysis on OpenChoice® or NI SignalExpress TE software and MS Windows software	Waveform math (+, -, x, /), DPO math ⁻³ , Arbitrary expression math ⁻³ , FFT, Connect to a PC for extended analysis on OpenChoice [®] , NI SignalExpress TE ⁻⁴ or MS Windows software	Waveform math (+, -, x), FFT, Connect to a PC for extended analysis on OpenChoice® software and MS Windows software	Waveform math (+, -, x), FFT, Connect to a PC for extended analysis on OpenChoice® or NI SignalExpress TE software and MS Windows software	Waveform math (+, -, x), FFT, Connect to a PC for extended analysis on OpenChoice® or NI SignalExpress TE software and MS Windows software	Waveform math (+, -, x),
Applications	Embedded design & debug, Investigation of transient phenomena, Automotive electronics design & debug, Manufacturing test & quality control, Industrial control	Telecomm mask testing and manufacturing, Digital troubleshooting, Video design and service, Power supply design	Industrial power design and installation, Advanced electronics design and installation, Education, Automotive	Design and debug, Service and repair, Education and training, Manufacturing test and quality control	Design and debug, Service and repair, Education and training, Manufacturing test and quality control	Power harmonic measurements, Installation maintenance and repair
Dimensions	17.3" (439 mm) wide x 9.0" (229 mm) high x 5.4" (137 mm) deep	14.8" (375 mm) wide x 6.9" (176 mm) high x 5.9" (149 mm) deep	13.24" (336 mm) wide x 6.33" (161 mm) high x 5.10" (130 mm) deep	12.85" (326.3 mm) wide x 6.22" (158.0 mm) high x 4.89" (124.2 mm) deep	12.85" (326.3 mm) wide x 6.22" (158.0 mm) high x 4.89" (124.2 mm) deep	7.0" (177 mm) wide x 8.5" (217 mm) high x 2.0" (51 mm) deep
Weight	11.0 lbs (5.0 kg)	7.0 lbs. (3.2 kg)	7.0 lbs. (3.2 kg) with one battery installed	4.4 lbs. (2.0 kg)	4.4 lbs. (2.0 kg)	3.2 lbs. (1.45 kg)

Specifications may vary based on the model selected within the product families listed above.

Requires TDS3TMT module. Diplional. Requires TDS3AAM module. Download from Tektronix website. MSO4000 Series only.

Recommended Accessories

4000 Series Accessories

 DP04AUTO Module
 Automotive serial triggering & analysis module (CAN).

 DP04EMBD Module
 Embedded serial triggering & analysis module (I°C, SPI).

 DP04COMP Module
 Computer serial triggering and analysis module (RS-232).

TPA-BNC TekVPI to TekProbe BNC adapter.

TEK-USB-488 GPIB to USB adapter. **AC4000** Soft transit case.

HCTEK4321 Hard carrying case (requires AC4000).

RM4000 Rackmount kit.

► TDS3000B Series Accessories

TDS3GV Communication Module GPIB, VGA and RS-232 interfaces. Includes TDSPCS1

OpenChoice® software.

TDS3AAM Advanced Analysis Module Adds extended math capability, arbitrary math expressions, measurement statistics and additional automated

TDS3LIM Limit Testing Module

Offers fast, accurate Go/No Go verification that tested circuits are operating within intended parameters.

Pass/Fail compliance testing of ITU-T G.703 and

TDS3TMT Telecommunications Mask Testing Module

ANSI T1.102 standards, custom mask editing and more.

Adds Video QuickMenu, Autoset, Holdoff, Line Count Trigger,

TDS3VID Extended Video Editing Module Adds Video QuickMenu, Autoset, Holdoff, Line Count Trigger Video Picture mode, Vectorscope mode, HDTV format triggering, grafticules and more

triggering, graticules and more.

TDS3SDI 601 Serial Digital Video Module

TDS3BATB

Identify and analyze ITU-R BT.601 video signals, video picture mode with bright line select, vectorscope mode, HDTV format triggering and more.

Battery pack for up to 3 hours of continuous operation

without line power.

TDS3PRT Plug-in

Plug-in printer adds easy, portable documentation capability, even when operating on battery power.

ovon whom operating

AC3000 Soft carrying case.

HCTEK4321 Hard carrying case (requires AC3000).

RM3000 Rackmount kit.

► TPS2000 Series Accessories

TPS2PBND Power Bundle Includes (4) P5120 passive, high-voltage probes and TPS2PWR1 power measurement and analysis software.

TPS2PWR1 Power SoftwareOffers instantaneous power waveform analysis, harmonics analysis, switching loss, phase angles, dv/dt and di/dt

cursors.

TPSBAT Battery pack for up to 4 hours battery operation. Optional

second battery offers hot-swappability for 8+ hours continuous battery operation.

TPSCHG External battery charger AC2100 Soft carrying case.

HCTEK4321 Hard carrying case (requires AC2100).

► TDS2000B and TDS1000B Series Accessories

TEK-USB-488GPIB to USB adapter.AC2100Soft carrying case.

HCTEK4321 Hard carrying case (requires AC2100).

RM2000B Rackmount kit.

Recommended Software

▶ 4000 Series, TDS2000B and TDS1000B Series Software

SIGEXPTE Software NI SignalExpress Tektronix Edition - Fully interactive measurement

software environment optimized for the MSO4000, DPO4000, TDS2000B and TDS1000B Series (Professional Version).

IVI Driver Provides a standard instrument programming interface for common

applications such as LabVIEW, LabWindows/CVI, Microsoft .NET and

MATLAB.

► TDS3000B and TPS2000 Series Software

TDSPCS1 OpenChoice® Software A collection of applications that enables fast and easy documentation and analysis of measurement results.

WaveStar™ Software

Offers live remote waveform reproduction, active remote control of oscilloscope-specific settings, advanced measurement and power harmonics analysis.

Complete Probe Solutions

Passive Probes	P2220 - 1/10X, 7 MHz/200 MHz passive probe			
	P3010 - 10X, 100 MHz passive probe			
	P6101B - 1X, 15 MHz passive probe			
	P6139A - 10X, 500 MHz passive probe			
Low-capacitance Probes	P6158 - 20X, 3 GHz low-capacitance probe			
Active Probes	P6205 - 10X, 750 MHz active probe ⁻³			
	P6243 - 10X, 1 GHz active probe ⁻²			
	TAP1500 - 1.5 GHz TekVPl™ active probe®			
Differential Probes	ADA400A - 100X/10X/1X/0.1X, 1 MHz differential preamplifier*3*4*8			
	P5205*3 - 1.3 kV, 100 MHz high-voltage differential probe			
	P5210*3 - 5.6 kV, 50 MHz high-voltage differential probe			
	P6246 - 1X/10X, 400 MHz differential probe ⁻²⁻⁸			
	P6247 - 1X/10X, 1 GHz differential probe *2 *8			
	TDP0500 - 500 MHz TekVPI 42V differential probe ¹⁹			
	TDP1000 - 1 GHz TekVPI 42V differential probe ^{r9}			
Current Probes	A621 - 1000 A _{RMS} , 50 kHz current probe			
	A622 - 70 A _{RMS} , 100 kHz current probe			
	P6021 - 5 A _{RMS} , 60 MHz current probe			
	P6022 - 2 A _{RMS} , 120 MHz current probe			
	TCP202 - 15 A, DC to 50 MHz current probe ⁻³			
	TCP312 - 30 A, DC to 100 MHz current probe ⁻⁵			
	TCP305 - 50 A, DC to 50 MHz current probe ⁻⁵			
	TCP303 - 150 A, DC to 15 MHz current probe ¹⁵			
	TCP404XL - 750 A, DC to 2 MHz current probe ⁻⁶			
	TCP0030 - 120 MHz TekVPI 30 Ampere AC/DC current probe ⁻⁹			
	TCPA300/400 - Current measurement systems'8			
ligh-Voltage Probes	P5100 - 100X, 250 MHz, passive high-voltage probe			
	P5120 - 20X, 200 MHz, passive high-voltage probe			
	P6015A - 1000X, 75 MHz passive high-voltage probe			
	P5200 - 50X/500X, 25 MHz, high-voltage differential probe ⁷			
	P5205 - 50X/500X, 100 MHz, high-voltage differential probe*3*8			
	P5210 - 100X/1000X, 50 MHz high-voltage differential probe ⁻³⁻⁸			
Probe Accessories	NEX-HD2HEADER - Mictor connector breakout to 0.1" header pins			

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 FAX 781.665.0780 - TestEquipmentDepot.com



[&]quot; Ships standard with the TPS2000 Series and TDS3GV module. "Requires 1103 TEKPROBE power supply when used with TDS1000B, TDS2000B, TDS3000B or TPS2000 Series." Requires 1103 TEKPROBE power supply when used with TDS1000B, TDS2000B or TPS2000 Series. "Bandwidth limits: 100 Hz, 3 Hz2 and 100 kHz." Used with TCPA300 amplifier. "Used with TCPA400 amplifier." Not compatible with TPS2000 Series. "Requires TekVPI to TekProbe™BNC adapter for use with the DP04000 and MS04000 Series." DP04000 and MS04000 Series only.