Bench Products Catalog 2010, Volume 2

2010 Bench Products Test & Measurement Solutions

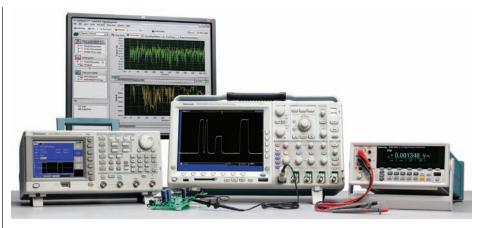




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Tektronix: The World's Standard in Oscilloscopes

8 out of 10 engineers around the world trust Tektronix to help them speed debug and test of tomorrow's designs. To complement our oscilloscopes, we offer a portfolio of bench instruments designed with the same ease-of-use you've come to expect from us over the last 60 years. From dedicated buttons for common functions to USB ports for saving data. Our instruments are designed to be quick to learn and simple to operate. And, every Tektronix bench instrument is built to last, backed by a 3 year warranty.

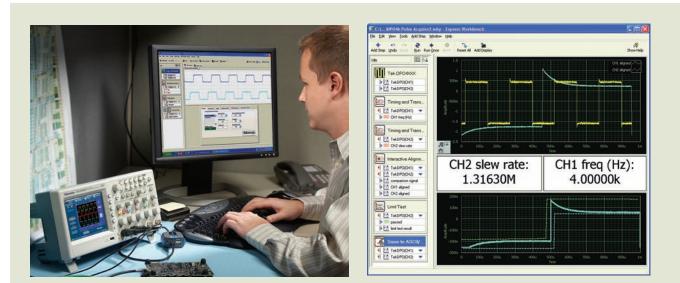
About Tektronix:

www.tektronix.com

For more than sixty years, engineers have turned to Tektronix for test, measurement and monitoring instrumentation to solve design challenges, improve productivity and dramatically reduce time to market. You can always count on us to give you the domain expertise, innovation, performance, practical advice and quality you need.

Tektronix offers a wide range of test and measurement solutions, from oscilloscopes and probes to signal generators and spectrum analyzers, with much more in between including our comprehensive line of bench instruments.

To see our full portfolio, please visit us at www.tektronix.com.



Connect Your Test Bench

with Tektronix Edition of National Instruments LabVIEW SignalExpress™

To simplify your most complicated tasks, connect your test bench with LabVIEW SignalExpress[™] from National Instruments, included standard with Tektronix bench instruments*. Control your Tektronix instruments right from your PC. Automate measurements and analyze data across multiple instruments. Capture and save results. Create reports. All from one intuitive software package.

The optional Professional Version of SignalExpress (SIGEXPTE) offers over 200 built-in functions for extended analysis including time and frequency domain analysis, limit testing, advanced data logging and customizable reports.

To download your free copy, visit: www.tektronix.com/signalexpress

* For a list of qualifying instruments, visit: www.tektronix.com/signalexpress.







TDS2000B Series

TPS2000 Series

TDS3000C Series

Basic Oscilloscopes Product Selection

To accurately visualize the intricate details of fast changing signals, you need an oscilloscope with uncompromised performance. Tektronix basic oscilloscopes feature digital real-time sampling with at least x5 over sampling on all channels, all the time, to precisely capture today's complex signals.

	TDS1000B/TDS2000B	TPS2000	TDS3000C
Channels	2, 4	2, 4 (isolated)	2,4
Bandwidth	40 MHz to 200 MHz	100 MHz to 200 MHz	100 MHz to 500 MHz
Rise Time	5.8 ns to 2.1 ns	3.5 ns to 2.1 ns	3.5 ns to 700 ps
Sample Rate	500 MS/s to 2 GS/s	1 GS/s to 2 GS/s	1.25 GS/s to 5 GS/s
Max Record Length	2.5 k points	2.5 k points	10 k points
Trigger Types	Edge, Pulse (width), Video	Edge, Pulse (width), Video	Edge, Logic (Pattern, State), Pulse (Glitch, Width, Runt, Slew Rate), Video, Extended Video*, Comm*
Optional Analysis		TPS2PWR1: Power Measurement and Analysis	TDS3AAM: Advanced Analysis TDS3LIM: Limit Testing TDS3SDI: 601 Serial Digital Video Analysis TDS3TMT: Telecom Mask Testing TDS3VID: HDTV and Custom Video Triggering
Connectivity	USB Host, USB Device, GPIB* "Optional	RS-232, Centronics, CompactFlash	USB Host, LAN (10Base-T Ethernet) Optional TDS3GV Module: GPIB, RS-232, and Video Out
Waveform Math and Analysis	12 Automated Measurements, Arithmetic Waveform Math, FFT	11 Automated Measurements, Arithmetic Waveform Math, FFT	25 Automated Measurements, Arithmetic Waveform Math, FFT, Advanced Math* *Optional
Software	PC Communications Software: OpenChoice® Desktop, NI LabVIEW SignalExpress™ Tektronix Edition	PC Communications Software: OpenChoice [®] Desktop	PC Communications Software: OpenChoice® Desktop, NI LabVIEW SignalExpress [™] Tektronix Edition
Battery Operation		One TPSBAT Battery Pack Included Standard	Requires Optional TDS3BATC Battery Pack
Applications	 Design and Debug Education and Training Manufacturing Test and Quality Control Service and Repair 	 Portable Power Troubleshooting Electronics Design and Installation Automotive Electronics Education 	 Design and Debug Video Design and Service Telecomm Mask Testing and Manufacturing Manufacturing Test and Quality Control Service and Repair
Starting Price	\$910	\$3,090	\$4,590

TDS1000B/2000B Series



Applications

- Design and debug
- Education and training
- Manufacturing test and quality control
- Service and repair

www.tektronix.com/tds2000b

TPS2000 Series



Applications

- Design and debug
- Industrial power design and debug
- Installation and maintenance
- Service and repair

www.tektronix.com/tps2000

TDS3000C Series		

Applications

- Design and debug
- Video design and development

- Manufacturing test and quality control
- Service and repair

www.tektronix.com/tds3000c

Features	Benefits	
Digital real-time sampling	Accurately capture signals with at least 5X over-sampling on all channels, all the time.	
Dedicated front-panel controls	Spend less time learning and more time on your task with easy-to-use front- panel controls.	
Front-panel USB host port	Quickly store and transfer your waveforms.	
USB plug-and-play PC connectivity	Simply transfer, analyze and document results with NI LabVIEW SignalExpress [™] TE and Tektronix OpenChoice [®] Desktop software.	
Direct print capability	Conveniently print to any PictBridge® compatible printer.	
Lifetime Warranty*	Reduce your cost of ownership with the standard, Lifetime Warranty.	
Just 4.4 lbs (2 kg)	Easily transport from lab-to-lab with the lightweight and compact design.	
*I imitations apply. For terms and conditions, visit www.tektronix.com/lifetimewarranty		

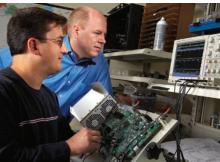
Take the TDS1000B/2000B for a spin, right from your desk.

Try the 360 degree interactive product demo at: www.tektronix.com/tds2000demo

Features	Benefits	
Four isolated channels	Safely and easily make 4-channel floating measurements, including 3-phase power measurements.	
Digital real-time sampling	Accurately capture signals with at least 5X over-sampling on all channels, all the time.	
Dedicated front-panel controls	Spend less time learning and more time on your task with easy-to-use front- panel controls.	
Front-panel CompactFlash [™] port	Quickly store and transfer your waveforms.	
Hot-Swappable battery pack	Work where you need to with up to 8 hours of continuous battery operation*.	
Just 6 lbs (2.7 kg)	Easily transport from lab-to-lab or into the field with the lightweight and compact design.	
Power measurement and analysis application module (optional)	Quickly make automatic measurements of real and apparent power, phase angle measurements, harmonics, and switching loss.	

Features	Benefits
Digital real-time sampling	Accurately capture signals with at least 5X over-sampling on all channels, all the time.
Digital phosphor display	Quickly capture and visualize glitches and infrequent events with a high waveform capture rate and intensity-graded display.
Advanced triggering	Capture digital signal anomalies with runt, glitch, rise/fall-time, and setup/hold violation triggers.
Dedicated front-panel controls	Spend less time learning and more time on the task at hand with easy-to-use front panel controls.
Front-panel USB host port	Quickly store and transfer your waveforms.
PC connectivity	Simply transfer, analyze and document results with NI LabVIEW SignalExpress [™] TE and Tektronix OpenChoice [®] Desktop software.
Just 5.9 inches (149 mm) deep	Free up valuable bench-top space.
Battery pack (optional)	Work where you need to with up to three-hours of portable battery operation.
Application modules (optional)	Transform your oscilloscope into a specialized instrument for limit testing, telecom mask testing, and video troubleshooting.





DPO3000 Series

DPO4000 Series

MSO4000 Series

Bench Oscilloscopes Product Selection

With the MSO/DPO Series of bench oscilloscopes, you can analyze analog and digital signals with a single instrument. Combine that with automated serial and parallel bus analysis, innovative Wave Inspector[®] controls for rapid waveform navigation, and automated power measurements, and the MSO/DPO Series provides the feature-rich tools you need to simplify and speed debug of your complex design.

	MSO/DPO2000	MSO/DPO3000	MSO/DPO4000
Channels	2, 4 analog channels; 16 digital channels	2,4 analog channels; 16 digital channels	4 analog channels; 16 digital channels
Bandwidth	100 MHz and 200 MHz	100 MHz to 500 MHz	350 MHz to 1 GHz
Rise Time	3.5 ns to 2.1 ns	3.5 ns to 700 ps	1 ns to 350 ps
Sample Rate	1 GS/s (analog); 1 GS/s (digital, only 1 pod) 500 MS/s (digital, both pods)	2.5 GS/s (analog) 121.2 ps (8.25 GS/s) MagniVU™ (digital)	2.5 GS/s to 5 GS/s (analog) 60.6 ps (16.5 GS/s) MagniVU [™] (digital)
Max Record Length	1 M points	5 M points	10 M points
Trigger Types	Edge, Logic, Pulse Width, Runt, Set-up and Hold, Rise/Fall Time, Video, I ² C*, SPI*, CAN*, LIN*, RS-232/422/485/UART*, Parallel (MSO2000)	Edge, Sequence, Logic, Pulse Width, Runt, Set-up and Hold, Rise/Fall Time, Video, Extended Video*, I ² C*, SPI*, CAN*, LIN*, RS-232/422/485/UART*, I ² S/LJ/RJ/TDM*, Parallel (MSO3000)	Edge, Sequence, Logic, Pulse Width, Runt, Set-up and Hold, Rise/Fall Time, Video, Extended Video*, I ² C*, SPI*, USB*, CAN*, LIN*, FlexRay*, RS-232/422/485/UART*, I ² S/LJ/RJ/TDM*, Parallel (MSO4000)
Ontional Social Rup			
Optional Serial Bus Decode and Analysis	DPO2AUTO: CAN and LIN DPO2COMP: RS-232/422/485/UART DPO2EMBD: I ² C, SPI	DPO3AUDIO: I ^s S, LJ, RJ, TDM DPO3AUTO: CAN and LIN DPO3COMP: RS-232/422/485/UART DPO3EMBD: I ^s C, SPI	DP04AUDIO: I ² S, LJ, RJ, TDM DP04AUTO: CAN and LIN DP04AUTOMAX: CAN, LIN and FlexRay DP04COMP: RS-232/422/485/UART DP04EMBD: I ² C, SPI DP04USB: USB
Connectivity	USB Host, USB Device, GPIB* Optional DPO2CONN Module: LAN (10/100 Base-T Ethernet) and Video Out "Optional	USB Host, USB Device, LAN (10/100 Base-T Ethernet), Video Out, GPIB* *Optional	USB Host, USB Device, CompactFlash, LAN (10/100 Base-T Ethernet), Video Out, GPIB* *Optional
Waveform Math and Analysis	29 Automated Measurements, Waveform and Screen Cursors, Arithmetic Waveform Math, FFT	29 Automated Measurements, Waveform and Screen Cursors, Arithmetic Waveform Math, FFT, Advanced Math, Measurement Statistics Optional: DPO3PWR: Power Analysis DPO3VID: HDTV and Custom Triggering	29 Automated Measurements, Waveform and Screen Cursors, Arithmetic Waveform Math, FFT, Advanced Math, Measurement Statistics, Waveform Histograms Optional: DPO4PWR: Power Analysis DPO4VID: HDTV and Custom Triggering
Software	PC communications software: OpenChoice® Desktop, NI LabVIEW Signal Express™ Tektronix Edition	PC Communications Software: OpenChoice® Desktop, NI LabVIEW Signal Express [™] Tektronix Edition	PC Communications Software: OpenChoice® Desktop, NI LabVIEW Signal Express™ Tektronix Edition
Applications	 Mixed Signal Design and Debug Embedded Design and Debug Investigation of Transient Phenomena Automotive Electronics Manufacturing Test and Quality Control 	 Mixed Signal Design and Debug Embedded Design and Debug Investigation of Transient Phenomena Video Design and Debug Automotive Electronics Manufacturing Test and Quality Control 	 Mixed Signal Design and Debug Embedded Design and Debug Investigation of Transient Phenomena Video Design and Debug Automotive Electronics Manufacturing Test and Quality Control
Starting Price	\$2,780	\$4,780	\$10,200

MSO/DPO2000 Series



Applications

- Design and debug of embedded systems
- Investigation of transient phenomena
- Visualization of signals masked by noise

www.tektronix.com/mso2000

MSO/DPO3000 Series



Applications

- Design and debug of embedded systems
- Investigation of transient phenomena
- Power supply design and analysis

www.tektronix.com/mso3000

Features	Benefits
Up to 4 analog and 16 digital channels	Analyze analog and digital signals on a single instrument for system-level troubleshooting of complex designs.
Digital phosphor display	Quickly discover glitches and infrequent events with a 5,000 wfm/s waveform capture rate and intensity-graded display.
Complete set of triggers	Rapidly capture signal anomalies with over 125 available trigger combinations, including setup/hold, serial packet content and parallel data.
Wave Inspector® controls	Easily search, mark and navigate long record lengths to find all occurrences of your event.
Automated Measurements	Simplify analysis of your device with 29 automated measurements and FFT analysis.
Parallel bus triggering and analysis (MSO Series)	Quickly debug your parallel bus with automated trigger, decode and search.
Serial triggering and analysis options	Quickly debug common serial buses with automated trigger, decode and search – I ² C, SPI, CAN, LIN and RS-232/422/485/UART.
FilterVu [™] variable low-pass filter	Easily filter out unwanted noise without losing sight of important anomalies or glitches with the innovative peak detect glitch capture.

Features	Benefits
Up to 4 analog and 16 digital channels	Analyze analog and digital signals on a single instrument for system-level troubleshooting of complex designs.
Digital phosphor display	Quickly discover glitches and infrequent events with a greater than 50,000 wfm/s waveform capture rate and intensity-graded display.
Complete set of triggers	Rapidly capture signal anomalies with over 125 available trigger combinations, including setup/hold, serial packet content and parallel data.
Wave Inspector® controls	Easily search, mark and navigate long record lengths to find all occurrences of your event.
Automated Measurements	Simplify analysis of your device with 29 automated measurements, FFT analysis, measurement statistics, and advanced waveform math.
Parallel bus triggering and analysis (MSO Series)	Quickly debug your parallel bus with automated trigger, decode and search. Capture fast transitions with timing resolution up to 121.2 ps.
Serial triggering and analysis options	Quickly debug common serial buses with automated trigger, decode and search – I ² C, SPI, CAN, LIN, RS-232/422/485/UART and I ² S/LJ/RJ/TDM.
Power analysis option	Achieve fast, accurate results with integrated automated power measurements.

MSO/DPO4000 Series



Applications

- Design and debug of embedded systems
- Investigation of transient phenomena
- Power supply design and analysis

www.tektronix.com/mso4000

Features	Benefits
4 analog and 16 digital channels	Analyze analog and digital signals on a single instrument for system-level troubleshooting of complex designs.
Digital phosphor display	Quickly discover glitches and infrequent events with a greater than 50,000 wfm/s waveform capture rate and intensity-graded display.
Complete set of triggers	Rapidly capture signal anomalies with over 125 available trigger combinations, including setup/hold, serial packet content and parallel data.
Wave Inspector [®] controls	Easily search, mark and navigate long record lengths to find all occurrences of your event.
Automated Measurements	Simplify analysis of your device with 29 automated measurements, FFT analysis, measurement statistics, waveform histograms, and advanced waveform math.
Parallel bus triggering and analysis (MSO Series)	Quickly debug your parallel bus with automated trigger, decode and search. Capture fast transitions with timing resolution up to 60.6 ps.
Serial triggering and analysis options	Quickly debug common serial buses with automated trigger, decode and search – I ² C, SPI, USB, CAN, LIN, FlexRay, RS-232/422/485/UART and I ² S/LJ/RJ/TDM.
Power analysis option	Achieve fast, accurate results with integrated automated power measurements.

Try the Tektronix Bench Oscilloscopes for yourself. With interactive product controls and 360 degree product views. Simply go to: www.tektronix.com/virtualmso

Digital Multimeter Product Selection

	DMM4050	DMM4040	DMM4020
Resolution	6.5 digit	6.5 digit	5.5 digit
Basic V _{dc} Accuracy	Up to 0.0024%	Up to 0.0035%	Up to 0.015%
Measurements	V ac, V dc, I ac, I dc, Resistance, Continuity, Diode, Frequency, Period, Temperature, Capacitance	V ac, V dc, I ac, I dc, Resistance, Continuity, Diode, Frequency, Period	V ac, V dc, I ac, I dc, Resistance, Continuity, Diode, Frequency
Analysis Modes	Trendplot, Statistics, Histogram	Trendplot, Statistics, Histogram	Limit Compare
Connectivity	Front panel: USB host Rear panel: RS-232, RS-232 to USB adapter included, IEEE-488 and Ethernet	Front panel: USB host Rear panel: RS-232, RS-232 to USB adapter included, IEEE-488 and Ethernet	Rear panel: RS-232, RS-232 to USB adapter included
Starting Price	\$1,350	\$1,100	\$750

DMM4050/DMM4040

Series



Applications

- Design and debug of embedded systems
- Automated Test
- Education

www.tektronix.com/dmm4050

Features	Benefits
6.5 digit resolution	Precisely measure volts, ohms and amps with a basic V dc accuracy of up to 0.0024%.
Frequency, period, capacitance* and temperature* measurements	Save cost and bench space by replacing a multifunction DMM, counter, capacitance meter, and temperature meter with one versatile instrument.
Patented split terminal jacks	Make 4-wire resistance measurements with just two leads.
Trendplot [™] paperless recorder mode	Plot measurement trends and graphically identify the extent of drift and intermittent events.
Histogram mode	Discover stability or noise problems by viewing results as a histogram.
Statistics mode	View multiple statistical values such as average, min, max and standard deviation to see how your signal is changing.
Dual display	Measure two different parameters of the same signal from one test connection.
Single button for every function	Reduce set up and evaluation time with dedicated front-panel buttons to access frequently used functions and parameters.
USB host port	Conveniently store data and user settings to USB memory devices using the front-panel port.
PC connectivity	Easily connect to a personal computer with multiple interface ports; Use NI LabVIEW SignalExpress [™] software to control your DMM, log data, and to simply transfer and document your results.

DMM4020 Series



Applications

- Design and debug of embedded systems
- Automated Test
- Education
- Manufacturing test and quality control

www.tektronix.com/dmm4020

Features	Benefits
5.5 digit resolution	Measure volts, ohms and amps with a basic V dc accuracy of 0.015%.
Frequency measurements	Save cost and bench space by replacing a multifunction DMM and counter with one instrument.
DC leakage current measurements	Make sensitive low current measurements with 1 nA resolution.
Patented split terminal jacks	Make 4-wire resistance measurements with just two leads.
Dual display	Measure two different parameters of the same signal from one test connection.
Limit compare mode	Eliminate mistakes with pass/fail indicators that clearly show if a test passes or fails.
Six setup buttons	Simplify complex measurements by saving the setup to a dedicated, front-panel button. Next time, simply press the appropriate setup button.
Single button for every function	Reduce set up and evaluation time with dedicated front-panel buttons to access frequently used functions and parameters.
PC connectivity	Easily connect to a personal computer using RS-232 or USB; Use NI LabVIEW SignalExpress [™] software to control your DMM, log data, and to simply transfer and document your results.

Signal Generators

Signal Generators

	AFG3000 Series					
Bandwidth	240 MHz, 100 MHz, 25 MHz, 10 MHz					
Channels	1 or 2 (independent or synchronized)					
Memory Depth	128 k points					
Standard Waveforms	Sine Gaussian Haversine	Sine(x)/x Pulse Exponential Decay	Square Lorentz Exponential	DC Noise Rise	Ramp Arbitrary	
Modulation	AM, FM, PM, FSK, PWM, External					
Additional Modes	Sweep, Burst, Add Noise Impairment					
Starting	\$1,990					

AFG3000 Series



Applications

- Replicate sensor signals or other missing system inputs
- Device stress testing
- Electronic design optimization
- Power semiconductor device test
- I/Q modulator test

www.tektronix.com/afg3000

Features	Benefits
Dual-channel models	Save cost and bench space by replacing two signal generators with one that offers two tightly synchronized or two completely independent signals.
Up to 2 GS/s sample rate	Generate waveforms with fine timing resolution.
Up to 20 Vp-p amplitude into 50 Ω load (AFG3011)	Save cost and set-up time by creating high amplitude signals without using an external power amplifier.
25 shortcut keys	Reduce set up and evaluation time with direct access to frequently used functions and parameters.
Large 5.6" (142 mm) color display	Full confidence in your signal since all relevant settings and waveform graphs can be seen at a single glance. (Monochrome on AFG3021B).
Only 6.6" (168 mm) deep	Free up valuable bench-top space.
ArbExpress [™] software	Create and modify waveforms with ease - import waveforms seamlessly from your Tektronix oscilloscope or create them via the equation editor, free hand, point draw or waveform math.

Probes and Accessories

Tektronix probes and accessories are perfectly matched to our industry-leading oscilloscopes. With over 100 choices available, you will find the probe you need.



Active Probes - TAP Series shown.

Active Probes

- Bandwidth up to 4 GHz
- True signal reproduction and fidelity
- Low input capacitances: < 0.5 pF
- Small Compact Probe Heads for Probing small geometry circuit elements



Current Probes - TCP Series shown.

Current Probes

- Easy to use and accurate AC/DC current measurements
- DC up to 2 GHz
- Amplitude measurements from 1 mA to 20,000 A
- Split core and solid core construction



Differential Probes - TDP Series shown.

Differential Probes

- Bandwidth up to 20 GHz
- Easily measure differential signals
- Low input capacitances: < 0.3 pF</p>
- High common mode rejection ratio (CMRR)
- Wide range of probe tips for easier circuit access



Passive Probes

Passive Probes

- DC to 500 MHz
- Wide range of performance to meet the demands of many applications
- Lightweight, ergonomic designs to fit your needs
- Wide range of probe tips for easier circuit access



High Voltage Probes

High Voltage Probes

- Wide range of voltage measurements -Up to 40 kV peak (100 ms pulse)
- Single-ended or differential



Carry Cases

Soft- and hard-sided cases available

Service

Your Tektronix Service Advantage

Tektronix bench instruments come standard with at least a 3-year warranty covering all parts and labor*. Tektronix offers a range of repair and calibration plans to extend your coverage and keep your instrument operating at optimal performance.

*Excludes probes.

Tektronix Factory Experts

Access to the engineering expertise that designed and built your products to ensure they are in peak performance. Over 20 man years of training per support engineer.

Comprehensive and Thorough Treatment

Software updates, safety and reliability modifications, and cosmetic enhancements are included if applicable. Products are returned to you in a "like new" condition. Worldwide support is available through the Tektronix network.

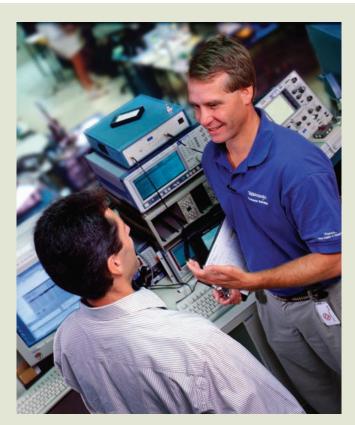
Efficiency and Convenience

Team of professionals focused on getting your instruments back to you as soon as possible to keep your downtime to a minimum and your service management easy.

Flexible Repair and Calibration Service

Choice of cost effective, flexible options and service packages to meet your needs.

For further details visit: www.tektronix.com/service



Summary of Service Plans

Repair Service	Calibration Service	Multi-Vendor	High Availability
Extended Coverage	Coverage	Calibration Services	Service Plan
 Save money with multi-year coverage Priority service Covers equipment, parts, labor and transportation Applicable software, safety and reliability updates 	 Accredited calibration Traceable calibration Functional verification Applicable software, safety and reliability updates Calibration records retention 	 Single point of contact for all of your calibration needs Simplify your operations and reduce administrative costs On-site delivery for convenience and reduced downtime 	 Identically configured dedicated spare products Flexible contract duration and payment terms Priority access to technical support

Contact Tektronix:

Also available:

Test and Measurement Catalog

Key product highlights and specifications for the entire suite of Tektronix test solutions.

To download a copy, please visit: www.tektronix.com/catalog

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> * If the European phone number above is not accessible, please call +41 52 675 3777 Contact List Updated 09 December 2009

For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com

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