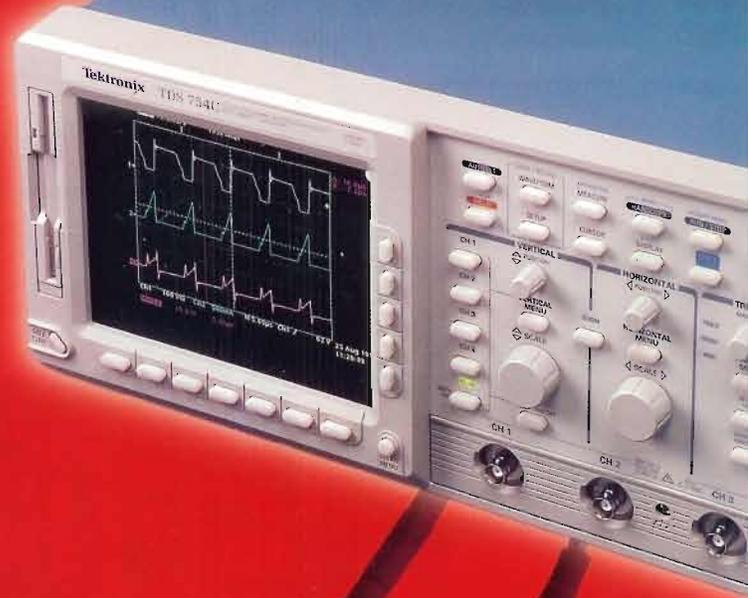


Tektronix

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A Selection Guide to Probes and Accessories

1997/98



- Active Voltage Probes
- Passive Voltage Probes
- Current Probes
- Differential Probes
- High Voltage Probes
- Optical-to-Electrical Converters
- Oscilloscope Accessories
- Handheld Meter Accessories
- Adapters and Connectors
- Attenuators and Terminators
- Cables and Connectors / Printer
- Carts
- Software



ACTIVE VOLTAGE PROBES



P6245

For acquiring high frequency signals from today's high-speed circuits, these **Active FET Probes** give you the best of all worlds.

- Low Input Capacitance
- High Bandwidth
- High Input Resistance

DC offset capability allows you to measure voltages on large dc components.



P6217



P6201, P6202A, 1101A



P6207

Probe Type	Bandwidth	Loading Ω/pF	Attn.	Max.dc +Pk ac	Dynamic Range	dc Offset Range	Interface/Readout/Identify*1	Compatible Oscilloscopes
P6201*2	900 MHz	100K/3.0	1X \pm 1.5%	\pm 50V	\pm 0.6V	\pm 5.6V	BNC/Y/N	Any
	900 MHz	1M/1.5	10X \pm 1.5%	\pm 200V	\pm 6.0V	\pm 56V	BNC/Y/N	Any
	900 MHz	1M/1.5	100X \pm 1.5%	\pm 200V	\pm 60V	\pm 200V	BNC/Y/N	Any
P6202A*2	500 MHz	10M/2.0	10X \pm 1.5%	\pm 60V	\pm 6.0V	\pm 55V	BNC/Y/N	Any
P6204	1.0 GHz	10M/1.9	10X \pm 1.5%	\pm 40V	\pm 10V	\pm 15V	TPB/Y/Y	TDS400-700*3
P6205	750 MHz	1M/2.0	10X \pm 1.5%	\pm 40V	\pm 10V	NA	TPB/Y/N	TDS400-700*3
P6207	4.0 GHz	100K/0.4	10X \pm 1.5%	\pm 40V	\pm 4.0V	\pm 5.0V	TPS/Y/N	TDS820
P6217	4.0 GHz	100K/0.4	10X \pm 1.5%	\pm 40V	\pm 4.0V	\pm 5.0V	TPB/Y/N	TDS400-700*3
P6243	1.0 GHz	1M/ \leq 1.0	10X \pm 2.0%	\pm 40V	\pm 8.0V	NA	TPB/Y/N	TDS400-700*3
P6245	1.5 GHz	1M/ \leq 1.0	10X \pm 1.5%	\pm 40V	\pm 8.0V	\pm 10V	TPB/Y/N	TDS400-700*3

*1 Interface Code: BNC = conventional BNC; TPB = TekProbe® BNC; TPS = TekProbe® SMA

*2 Requires Probe Power connector on the scope or 1101A Power Supply

*3 Also compatible with 11000 Series.

These probes can be used with any oscilloscope if 1103 power supply is used.

P6243S ACTIVE PROBE SYSTEM

For those of you who use non TekProbe® interface oscilloscopes and are involved in digital design qualification and verification, the **P6243S** is the solution. The system includes two **P6243** Active Probes plus one **1103** TekProbe® Power Supply.

(See above chart for the specifications on the **P6243** Active Probe)



P6243S

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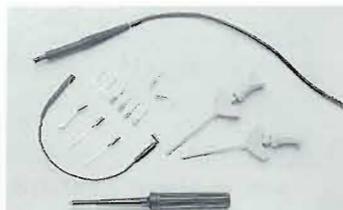
PASSIVE VOLTAGE PROBES

Most general purpose/laboratory oscilloscopes use **Passive Probes** to make a direct, flexible and convenient connection to a device under test. The ideal probe/oscilloscope combination should acquire your signal and display it **without** changing signal source. While it is not possible to be totally non-invasive to the circuit/signal, matching the probe and the scope to the circuit under test yields excellent results for most applications.

- Matched probes for Tektronix Oscilloscopes
- Wide range of bandwidth selection
- SMD probes (P6561A, P6562A, P6563A)
- Rugged, safe construction
- Safety Certified



P6139A



P6561A SMD Probe



SMD Standard Accessories



P6117

Probe	Bandwidth (MHz)	Attenuation	Compensation Range	Readout	Scope Compatibility
P6101B	15	1X	15 to 35 pF	No	All
P6103B	60	10X	15 to 35 pF	No	All
P6109B	100	10X	15 to 35 pF	Yes	All
P6111B	200	10X	15 to 35 pF	Yes	TDS 360
P6114B	400	10X	15 to 35 pF	Yes	TDS 380
P6117	200	10X	15 to 35 pF	No	THS 700 Series
P6122	100	10X	15 to 35 pF	No	2200 Series
P6131	300	10X	14 to 35 pF	Yes	2400 Series
P6133	150	10X	10 to 25 pF	Yes	2400 Series
P6134C	400	10X	12 to 18 pF	Yes	11000 Series
P6136	350	10X	12 to 18 pF	No	2400 Series
P6137	400	10X	12 to 18 pF	Yes	2400 Series
P6138A	400	10X	12 to 18 pF	Yes	TDS 400 Series
P6139A	500	10X	8 to 12 pF	Yes	TDS 500/600 Series
P6105A	100	10X	15 to 35 pF	Yes	All
P6106A	250	10X	15 to 35 pF	Yes	All
P6561A	200	10X	15 to 35 pF	Yes	TDS 300, TAS 400
P6562A	350	10X	12 to 35 pF	Yes	TDS 400, 2400, 11000
P6563A	500	20X	7 to 30 pF	Yes	TDS 500/600/700 Series



P6109B

CURRENT PROBES

POWER-ELECTRONICS MEASUREMENT SYSTEM

SIMPLE INSTANTANEOUS POWER MEASUREMENTS

By using a **P5205** or **P5210** Differential Probe and **TCP202** Current probe with the appropriate **TDS** Oscilloscope - instantaneous power can be measured easily. Energy can also be calculated by the scope and displayed on the screen. The propagation delays of the probes are matched so that the current and voltage waveforms are aligned in time. Additional accuracy is available by using the scope's deskew capability.

- AC and DC Currents
- Differential Voltage
- Instantaneous Power
- Energy Computation
- Intelligent Probing

With this system, the measurement displayed on the screen is correct numerically and has the correct units of measure. For specifications on the probes, see the listing in the following appropriate sections.



TCP202, P5205/Scope

HIGH PERFORMANCE CURRENT PROBES

AC/DC CURRENT PROBES FOR ANY OSCILLOSCOPE

The **AM 503S**, with **AM 503B** amplifier, power module and a choice of six current probes, gives you the most accurate **AC** and **DC** waveform measurements you can get, from **DC** to **100 MHz**. Hall Effect device circuitry combined with Tektronix circuit technology assures high performance you expect from a Tektronix current probe. GPIB programmability may be obtained with the **AM 5030S** system and **AM 5030** amplifier.

- Broad Bandwidth
- DC and AC Current Measurements
- Split Core
- Versatile

The following specifications indicate the performance of the current probe system with the six current probes available.

AM 503S with A6302 and A6303 probes



A6303XL, A6304XL and A6302XL

Model Number	Bandwidth Hz to MHz	Peak Pulse (A)	Max. AC p-p (A)	Derate Above kHz	Max. DC (A)	Current/Div Display Range	Rise Time	Insertion Impedance @ 1 MHz (Ω)	Max. Barewire Voltage (V)	Max. Cond. Dia. (mm)	Cable Length (m)
A6312	DC to 100	50	40	20	20	1mA to 5A ^{*1}	≤3.5 ns	0.10	300	3.8	2
A6312/CT4	0.5 to 20	20k	2k	1.2	20	20mA to 5kA	≤17.5 ns	30m	3k	38.1	2
A6302	DC to 50	50	40	20	20	1mA to 5A ^{*1}	≤7.0 ns	0.10	300	3.8	2
A6302/CT4	0.5 to 20	20k	2k	1.2	20	20mA to 5kA	≤17.5 ns	30m	3k	38.1	2
A6302XL	DC to 17	50	40	20	20	1mA to 5A ^{*1}	≤20 ns	0.10	300	3.8	8
A6302XL/CT4	0.5 to 13	20k	2k	1.2	20	20mA to 5kA	≤20 ns	30m	3k	38.1	2
A6303	DC to 15	500	200	20	100	5mA to 50A ^{*1}	≤23 ns	0.02	700	21	2
A6303XL	DC to 10	500	200	20	100	5mA to 50A ^{*1}	≤35 ns	0.02	700	21	8
A6304XL	DC to 2	700	700	1.8	500	500mA to 200A ^{*1}	≤175 ns	0.20	700	21	8

*1 Scope set to 10 mV/Div.

Scan by Zenith

AC/DC CURRENT PROBE FOR TEKTRONIX TDS OSCILLOSCOPES

- Split core
 - 15 Amps DC + pk AC
 - Low Insertion Impedance
 - 50 MHz Bandwidth
- The **TCP202** is a general purpose **AC/DC** current probe designed for direct connection to oscilloscope's TekProbe® interface.



TCP202

Model Number	Bandwidth Hz to MHz	Peak Pulse (A)	Max. AC p-p (A)	Derate Above kHz	Max. DC (A)	Current/Div Display Range	Rise Time	Insertion Impedance @ 1 MHz (Ω)	Max. Barewire Voltage (V)	Max. Cond. Dia. (mm)	Cable Length (m)
TCP202	DC to 50	50	30	50	15	*	≤7.0 ns	0.07	300	3.8	2
TCP202/CT4	0.5 to 20	20k	2k	1.2	15	*	≤17.5 ns	30m	3k	38.1	2

* Depends on instrument used

AC CURRENT PROBES FOR ANY OSCILLOSCOPE

- Split core
- High Frequency
- Low Insertion Impedance
- For use with 1 Mohm systems

The **P6021** and **P6022** Current Probes provide versatile **AC** current measurements over a wide range of frequencies.



Model Number	Bandwidth Hz to MHz	Peak Pulse (A)	Max. AC p-p (A)	Derate Above MHz	Max. DC	Minimum Current/Div	Rise Time	Insertion Impedance @ 1 MHz (Ω)	Max. Barewire Voltage (V)	Max. Cond. Dia. (mm)	Cable Length (m)
P6021	120 to 60	250	15	5	0.5 A	2 or 10mA*	≤5.8 ns	0.03	300	3.8	1.52
P6021/CT4	120 to 120	20k	2k	1.2	20 A	400mA or 100A	≤17.5 ns	0.03	3k	38.1	1.52
P6022	935 to 120	100	6	10	0.2 A	1 or 10mA*	≤2.9 ns	0.03	300	2.6	1.52

* Switchable

- Solid Core
- High Frequency
- Low Insertion Impedance
- 50 Ohm Systems

The **CT-1** and **CT-2** Current Probes are designed for permanent or semi-permanent in-circuit installations. Each probe consists of a current transformer and an interconnecting cable. The current transformers have a small hole which a current carrying conductor is passed during circuit assembly.

Model Number	Bandwidth kHz to GHz	Peak Pulse (A)	Max. CW Current (A)	Sensitivity into 50 Ω mV/mA	Max. Bare Wire Size mm (inch)
CT-1	25 - 1	12	0.45	5	1.78 (0.070)
CT-2	1.2 - 0.2	36	2.5	1	1.32 (0.052)

* Depends on instrument used



P6041
(Standard with CT-1 and CT-2)

CT-1 and CT-2

HIGH VOLTAGE PROBES

To measure high voltages in your circuits and systems, Tektronix has the solutions to your problems.

HIGH VOLTAGE DIFFERENTIAL PROBES

SOLVE YOUR FLOATING VOLTAGE MEASUREMENT PROBLEMS

The **P5200**, **P5205** and **P5210** are high voltage differential probes that eliminate the need to float your scope thereby resolving the safety issues. The **P5200** is designed for use with any oscilloscope while the **P5205** and **P5210** are designed to operate specifically with Tektronix oscilloscopes which have TekProbe® interface.



P5210



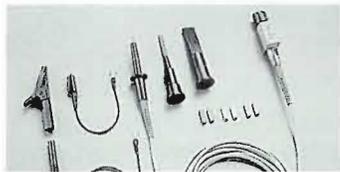
P5205

Model	Bandwidth	Differential Voltage DC + Pk AC	Common Voltage RMS	DC Gain Accuracy	Switchable Attenuation	Power Source
P5200	DC to 25 MHz	1,300 V	1,000 V	3%	500X/50X	AC
P5205	DC to 100 MHz	1,300 V	1,000 V	3%	500X/50X	TekProbe®
P5210	DC to 50 MHz	5,600 V	2,200 V	3%	1000X/100X	TekProbe®



P5200

HIGH VOLTAGE PROBES



P5100

The P5100 and P6015A allow you to make high voltage measurements accurately.

- Up to 40 kV Peak Pulse
- High Bandwidth
- Use with any scope



P6015A

High Voltage Probes	P6015A	P5100
Attenuation	1000X	100X
Bandwidth (MHz)	75	250
Loading (MΩ/pF)	100/3.0	10/2.7
DC Max	20 kV	2.5 kV
Length (Standard)	3 m*	3 m
Compensation Range (pF)	7-49	7-30
Readout	Option	Yes

* 7.6 m option

VOLTAGE ISOLATORS

Voltage Isolators allow you to measure floating voltages up to a distance of 200 m.

- Excellent CMRR
- High Bandwidth
- Up to 4 Channels
- GPIB Available

	A6907	A6909	A6906S
Bandwidth (-3 dB)	60 MHz	60 MHz	100 MHz
Maximum Voltage	±850 V	±850 V	±850 V
Common to GND Slew Rate	20,000 V/μs	20,000 V/μs	100,000 V/μs
Separation Distance	1.5 m	1.5 m	3 m, 10 m, 20 m, 100 m, 200 m
CMRR @ 1 MHz (with Probe) Channels	60 dB 4 (monolithic)	60 dB 2 (monolithic)	60 dB 1



A6907/9



A6906S

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DIFFERENTIAL PROBES/PREAMPLIFIER

DIFFERENTIAL PROBE

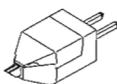
The **P6247** and **P6246** enable users to make time domain and frequency domain measurements on signals commonly found in the disk drive, digital IC design and communication industries. The small probe head geometry and assorted probe tip accessories allow these probes to easily accommodate manual probing of surface mount devices while maintaining high CMRR.

APPLICATIONS

- Semiconductor Characterization
- Disk Drive Read Channel Design
- Communication Pulse Shape Compliance
- Jitter, Cross-Talk, BERT Measurements
- Location of Ground Bounce



Twin Tip Probe Tip Adapter



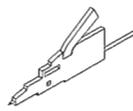
Twin Foot Probe Tip Adapter



P6046/HP1141A Probe Tip Adapter



50Ω BNC (F) to Probe Tip Adapter



SMK4 Micro Klip Chip Adapter

FEATURES

- High Bandwidth
- Low Capacitance
- Five Probe to Circuit Adapters
- Electrostatic Discharge Tolerant (IEC 801-2)
- High CMRR
- Connects to TekProbe® Interface on TDS Series Scopes, or other instruments using the 1103 TekProbe® Power Supply
- For use with Oscilloscopes, Spectrum or Network Analyzers, Time Interval Analyzers, and Bit Error Rate Testers



P6247/P6246

Specifications

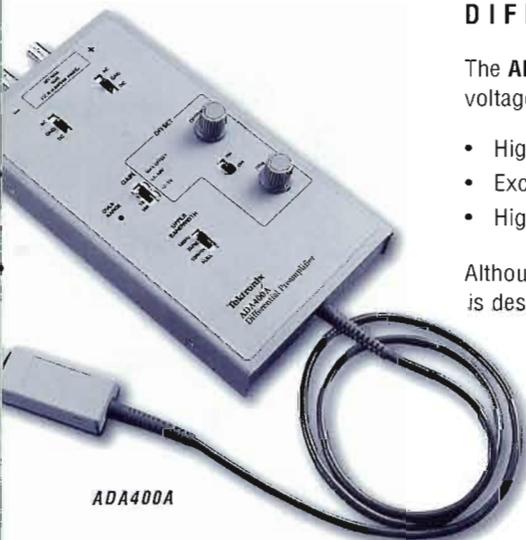
Attenuation	X1/X10
Bandwidth	DC to 1 GHz (P6247), DC to 400 MHz (P6246)
Risetime	<350 ps (P6247), <875 ps (P6246)
Diff. input V Range	±0.85 V (±1), ±8.5 V (±10)
Comm. input V Range	±7.0 V (±1), ±7.0 V (±10)
Input R	200 kΩ (differential mode), 100 kΩ (common mode)
Input C	<1 pF (differential mode), <2 pF (common mode)
CMRR	>70 dB (≤1 MHz), 50 dB (≤100 Mhz), >30 dB (≤1 GHz)
Electrostatic Immunity	>15 kV

DIFFERENTIAL PREAMPLIFIER

The **ADA400A** Differential Preamplifier allows direct oscilloscope measurements of very low amplitude voltages and signals that are not ground referenced.

- High Sensitivity
- Excellent CMRR
- High Input Impedance

Although the **ADA400A** is designed to work specifically with TekProbe® interface scopes, it can be used with any scope by powering it from the **1103** Probe Power Supply.



ADA400A

Specifications

Gain	X0.1, X1, X10, X100
Bandwidth	DC to 1 MHz
Bandwidth Filters	100 Hz, 3 kHz, 100 kHz
Differential Voltage	100 mV @ X100, 1 V @ X10, 10 V @ X1, 80 V @ X0.1
Max. Input Voltage to Ground	±10 V @ X100, X10 ±40 V @ X1, X0.1
Input R	1 MΩ (each input) (∞Ω Selectable in X100 and X10 gains)
Input C	55 pF (each input)
CMRR	100,000:1 DC-10 kHz

OPTICAL-TO-ELECTRICAL CONVERTERS

P6700 SERIES OPTICAL-TO-ELECTRICAL CONVERTERS

PRODUCT DESCRIPTION

The Tektronix **P6701B/P6703B/P6711/P6713/P6723** are optical probes that convert optical signals into electrical signals for convenient analysis on Tektronix oscilloscopes equipped with the Tekprobe® interface or any other oscilloscopes when used in conjunction with the 1103 Tekprobe® Interface Power Supply. The P6700 series products are ideal for optical signal characterization in the development, manufacturing or service of optical communication systems or sources, such as SONET/SDH or FibreChannel.



P6700 O/E Family

Specification	P6701B	P6703B	P6711	P6713	P6723
Wavelength Response	500 to 950nm	1100 to 1700nm	500 to 950nm	1100 to 1700nm	1310 / 1550nm
Bandwidth	DC to 1.0GHz	DC to 1.2GHz	DC to 250MHz	DC to 300MHz	20 to 650Mb/s
Rise Time	≤500ps	≤395ps	≤2ns	≤1.6ns	≤455ps
Conversion Gain	1V/mW	1V/mW	5V/mW	5V/mW	1.0V pk-pk
Max. Input Optical Power	1mW (0dBm)	1mW(0dBm)	0.2mW (-7dBm)	0.2mW (-7dBm)	0.2mW (-7dBm)
Noise Equivalent Power	≤0.75mW(RMS)	≤0.35mW(RMS)	≤250nW (RMS)	≤200nW (RMS)	N/A
Max. Input Fiber Core Diameter	62.5µm	62.5µm	200µm	100µm	62.5µm

SA & SD SERIES OPTICAL-TO-ELECTRICAL CONVERTERS

PRODUCT DESCRIPTION

The **SA-42** and **SA-46** are stand alone, wide bandwidth O-E converters packaged as small (palm-sized) compact modules that are easy to use. They can be used with Tektronix oscilloscopes and spectrum analyzers as well as other manufacturers instruments. The **SD-42** and **SD-46** are O-E converters for use with Tektronix **CSA 803A** and **11800** Series sampling scopes.



SA-46

PULSE CHARACTERISTICS	SA-42	SA-46	SD-42	SD-46
Impulse Response	50 ps Max (FWHM)	22 ps Max (FWHM)	55 ps Max (FWHM)	22 ps (FWHM)
Bandwidth	DC-7.0 GHz Optical	DC-20.0 GHz Optical	DC-6.4 GHz Optical	DC-20.0 GHz Optical
Spectral Response	1000 to 1700 nm	1100 to 1650 nm	1000 to 1700 nm	1200 to 1650 nm
Noise Equivalent Power	23 pW / √Hz*2	32 pW / √Hz*2	23 pW / √Hz*2	32 pW / √Hz*2
Power		≤45 µW*3 ≤16 µW*4	≤33 µW*3 ≤10 µW*4	≤45 µW*3 ≤16 µW*4
Linear Response Range	≤25 mW Peak Power ≤5 mW Average Power			
Aberrations	≤15% p-p*5	≤10% p-p*5	≤15% p-p*5	≤10% p-p*5
Conversion Gain	40mV/mW	29mV/mW	40mV/mW	29mV/mW
Conversion Factor	25µW/mW	35µW/mW	25µW/mW	35µW/m

ELECTRICAL COMMUNICATION ADAPTERS

PRODUCT DESCRIPTION

The **AFTDS** Differential Signal Adapter and the **AMT75** 75 Ohm Adapter provide an effective means of 50 Ohm terminated instruments to connect to and analyze differential and high speed electrical communication signals as well as video signals.

AFTDS DIFFERENTIAL SIGNAL ADAPTER FOR ELECTRICAL COMMUNICATION

- Compiles with ANSI T1.102 and ITU-T G.703 Standards
- 120 MHz Bandwidth
- Low VSWR (Return Loss) <1.1:1, (>26 dB)
- Connects Directly to TDS Series Scope (TekProbe® Interface) or other 50Ω Terminated Instruments
- CE Certified

AMT75 75 Ω ADAPTER FOR ELECTRICAL COMMUNICATION AND VIDEO SIGNALS

- Complies with ANSI T1.102, ITU-T G.957, ITU-T-G.703 Standards and Bellcore GR-253-CORE
- 1.0GHz Bandwidth
- Low VSWR (Return Loss) ≤ 1.1:1, (>26 dB)
- Connects Directly to TDS Series Scope (TekProbe® Interface) or other 50Ω Terminated Instruments



AMT75/AFTDS and Accessories

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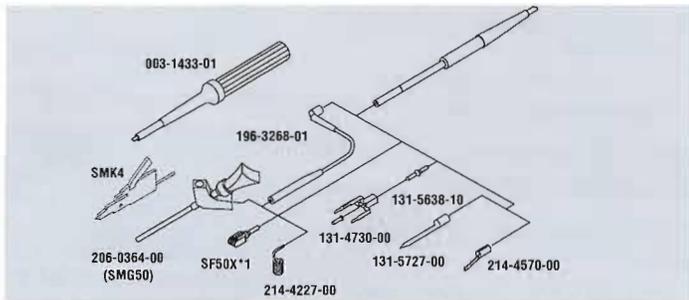
Diagrams are Not to Scale

PROBE ACCESSORIES

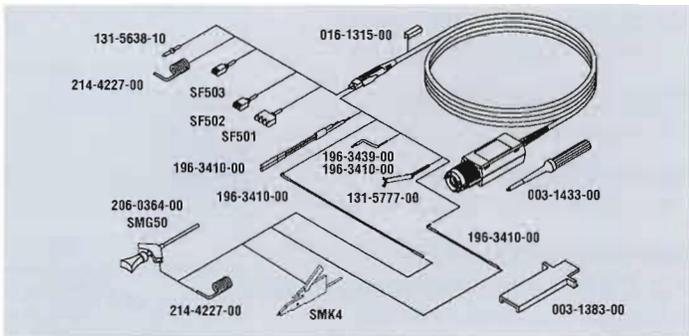
PROBE ADAPTERS AND CONNECTORS

Waveform capture when working with pulse, UHF or microwave instruments becomes easier when using Tektronix Probe Adapters and Accessories.

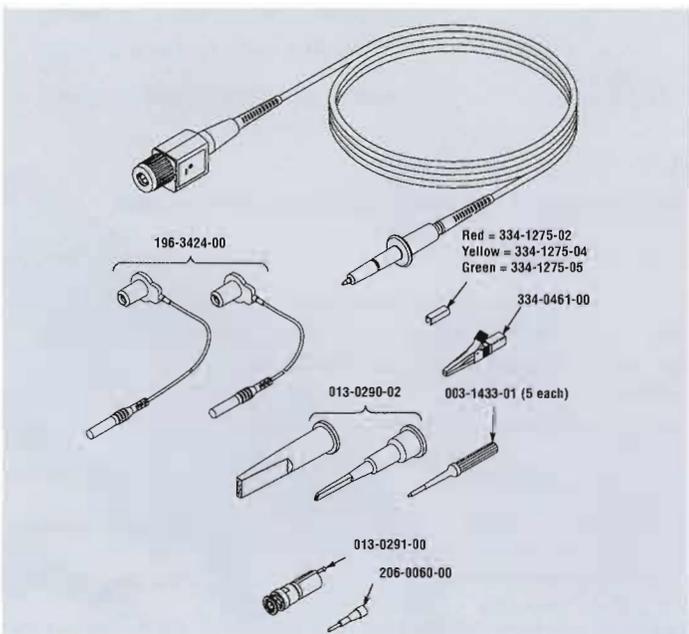
Diagrams are Not to Scale



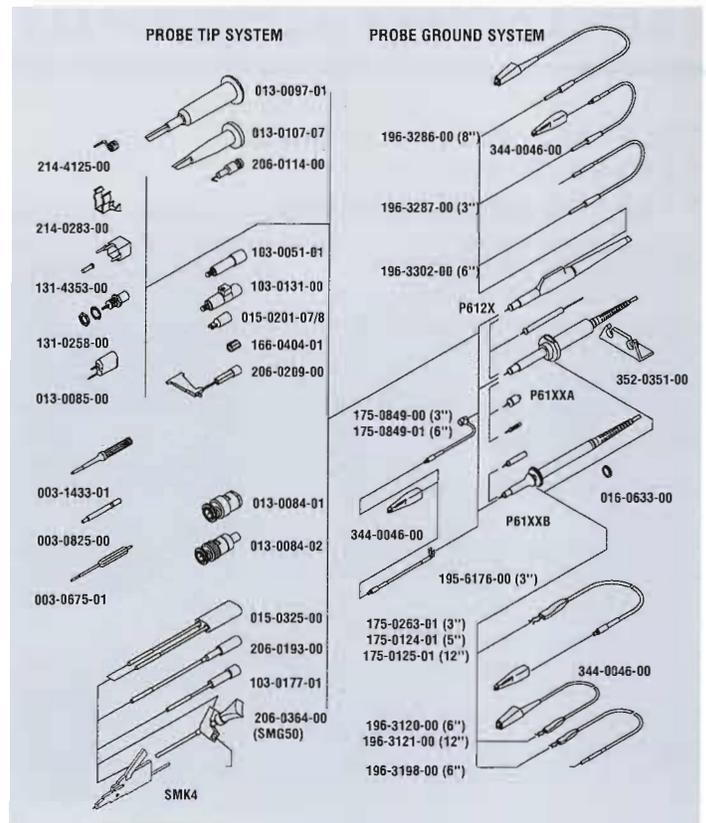
SMD P6561A(S)/P6562A(S)/P6563A(S)



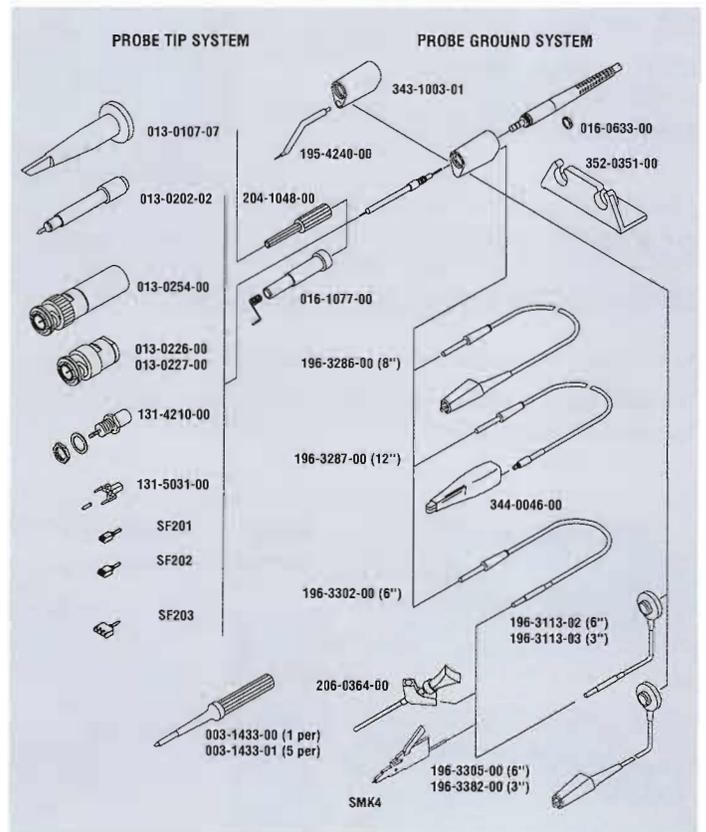
P6245/P6243



P5100/P5102



5 mm (Miniature) Probe Accessories



3.5 mm (Compact) Probe Accessories

OSCILLOSCOPE ACCESSORIES

TEKSCOPE THS700 SERIES HANDHELD DIGITAL STORAGE OSCILLOSCOPE

- P6117 PASSIVE VOLTAGE PROBE**
10X, 200 MHz Passive Voltage probe
Performance specifications include
- 200 MHz Bandwidth
 - 300 V RMS
 - IEC1010 Certified (UL3111.1)
 - 13 pF input capacitance



P6117

- P5102 HIGH VOLTAGE PROBE**
10X, 100 MHz High Voltage probe
Performance specifications include
- 100 MHz Bandwidth
 - 1000 V RMS
 - IEC1010 Certified (UL3111.1)
 - 11.2 pF input capacitance



P5102

- THS7BAT NICAD BATTERY PACK**
Specifications include
- 4.8Volt • 2.8 A/Hour



THS7CHG

- THS7CHG TEKSCOPE BATTERY CHARGER**
Specifications include
- 12 to 18 Volt Input (DC)
 - 2 Hour Charge Time

- HC411 THERMAL PRINTER**
- 112 mm paper rolls
 - AC or Battery powered



THS7HCA TEKSCOPE
HARD CARRYING CASE

TDS 200 SERIES DIGITAL STORAGE OSCILLOSCOPE

- P6112 PASSIVE VOLTAGE PROBE**
10X, 100 MHz Passive Voltage probe
Performance specifications include
- 300 V RMS
 - IEC1010 Certified (UL3111.1)
 - 13 pF input capacitance



P6112

- AC220 TDS 200 SERIES
OSCILLOSCOPE SOFT CASE**



AC220

- TDS2MM MEASUREMENT EXTENSION
MODULE**
- GPIB, RS-232C, Centronics ports
 - FFT
 - Automatic measurements



TDS2MM & TDS2CM

- TDS2CM COMMUNICATION MODULE**
- GPIB, RS-232C, Centronics ports

- TDS2HM HARD COPY MODULE**
- Centronics port



TDS 2HM

- RM200 RACKMOUNT**
- Rackmount kit for TDS 200 series

- P5100 HIGH VOLTAGE PROBE**
100X, 250 MHz High Voltage probe
Performance specifications include
- 2500 V RMS
 - IEC1010 Certified (UL3111.1)
 - 2.5 pF input capacitance



RM200

GENERAL PURPOSE CURRENT PROBES

CURRENT PROBES FOR ANY OSCILLOSCOPE/METER

- Clamp-on • Excellent Value • AC and DC • Easy to Use

The **A600** Series current probes high-value current probes are specifically designed to support measurements you make with your **DMM**, TekMeter® or oscilloscope.



A621



A622

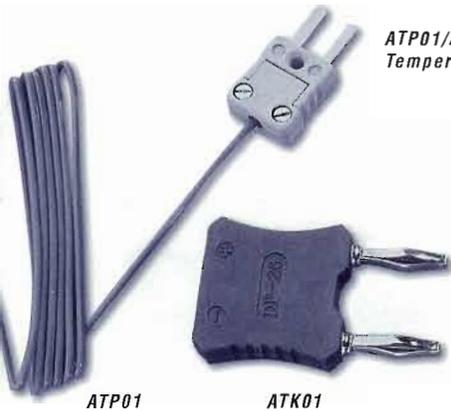
Model Number	Frequency Range	Current Range RMS to Peak	Instrument Compatibility	Max. Conductor	Termination
A605	48 Hz to 1 kHz	≥4 A to 500 A	DMM/TekMeter®	30 mm dia.	Shielded Banana Plug
A610	DC to 440 Hz	≥2 A to 500 A	DMM	30 mm dia.	Shielded Banana Plug
A621	5 Hz to 50 kHz	100 mA to 2,000 A	Scope/DMM/TekMeter®	54 mm dia.	BNC (w/banana adapter)
A622	DC to 100 kHz	50 mA to 100 A	Scope/DMM/TekMeter®	11.8 mm dia.	BNC (w/banana adapter)

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HANDHELD METER ACCESSORIES

TEST LEADS AND CLIPS, SOFT CASES AND TEMPERATURE ACCESSORIES

This line of value-priced accessories is fully compatible with Tek handheld meter products. Both test leads and clips are fully compliant with UL and IEC 1010 safety standards. The soft cases offer shock resistant, durable protection. The temperature probes also provide fast response over a wide temperature range.



ATP01/ATK01
Temperature Accessories



ATL21



ATL22



Soft Carrying Cases



ACL21



ACL22



ACL24



ATL21



ATLDX1



ATL22

- ATLDX1**
Deluxe lead set w/tip accessories
- ATL21**
Shielded banana plug lead cables
- ATL22**
Plug-on test lead tips
- ATL23**
Plug-on sharp IC test lead tips
- ACL21**
Plug-on safety alligator clips
- ACL22**
Plug-on hook-tip clips
- ACL23**
Plug-on wire clamp clips
- ACL24**
Plug-on jaw clips

- ATL01**
Basic lead set
- AC11**
Small nylon soft case
- AC12**
Large nylon soft case
- AC13**
Long nylon soft case
- ATK01**
Temperature probe adapter, thermocouple-to-banana
- ATP01**
Temperature bead probe, type K, -40°C to 204°C

TEST LEAD AND PROBE COMPATIBILITY CHART

Part No.	Description	DMM100 Series	DMM200 Series	DCM910 Series	THS700 Series
ATLDX1	Deluxe Lead Set	Yes	Yes	Yes	Yes
ATL01	Basic Lead Set w/ Probe Tips	Yes	Yes	Yes	Yes
ATL21	Basic Test Leads	Yes	Yes	Yes	Yes
ATL22	Basic Tip	Yes	Yes	Yes	
ATL23	Extended Reach Tip	Yes	Yes	Yes	Yes
ACL21	Alligator Clips	Yes	Yes	Yes	Yes
ACL22	Hook Clips	Yes	Yes	Yes	
ACL23	Wire Clips	Yes	Yes	Yes	
ACL24	Jaw Clips	Yes	Yes	Yes	
AC11	Small Soft Case	Yes	Yes		
AC12	Large Soft Case			Yes	
AC13	Long Soft Case	Yes	Yes	Yes	
ATK01	Thermocouple Adapter			Yes	
ATP01	Basic Temperature Probe			Yes	



ATL01

ADAPTERS AND CONNECTORS

GENERAL PURPOSE ADAPTERS AND CONNECTORS

Tek provides a complete line of **Coaxial Adapters and Connectors** to make your testing application quicker and easier. You can make connections faster without any soldering or crimping. Just screw on a connector and you are ready to go.

ADAPTERS

Adapter Configuration	Model No.
-----------------------	-----------

BNC ADAPTERS

BNC Male to GR	017-0064-00
BNC Male to UHF Male	103-0015-00
BNC Male to UHF Female	103-0032-00
BNC Male to Binding Post	103-0033-00
BNC Male to Dual Binding Post	103-0035-00
BNC Male to N Female	103-0058-00
BNC Male to F type Female	013-0126-00
BNC Male 75 to 50 ohm min loss	011-0112-00
BNC Female to N Male	103-0045-00
BNC Female to Dual Banana Plug	103-0090-00
BNC Female to Alligator Clips	013-0076-00
BNC Female to Alligator Clips	013-0261-00
BNC Female to Retractable Hook Tip	013-0076-01
BNC Female 75 to 50 ohm Type N Min Loss	131-4199-00
BNC Insertion 'T'	011-0128-00

SMA ADAPTERS

SMA Male to N Male	015-0369-00
SMA Male to BNC Female	015-0554-00
SMA Male to N Female	015-1009-00
SMA Male to SMA Female	015-0549-00
SMA Kit	020-1693-00
SMA Female to BNC Male	015-0572-00
SMA Female to SMA Slide On Male	015-0553-00
SMA Female to GR	015-1008-00

3.5 MM ADAPTERS

SMA Male to SMA Female	015-0552-00
SMA Male to SMA Male	015-0551-00

N STYLE ADAPTERS

N Female to BNC Male	103-0058-00
N Male to N Female	015-0509-00
N Male to BNC Female	103-0045-00



CONNECTORS

Connector Type	Model No.
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BNC CONNECTORS

BNC Female to BNC Female	103-0028-00
BNC Male to BNC Male	103-0029-00
BNC "T"	103-0030-00
BNC Elbow Male to Female	103-0031-00

SMA CONNECTORS

SMA Male to SMA Male	015-1011-00
SMA "T"	015-1016-00
SMA Male to BNC Female	015-1018-00
SMA Female to SMA Female	015-1012-00

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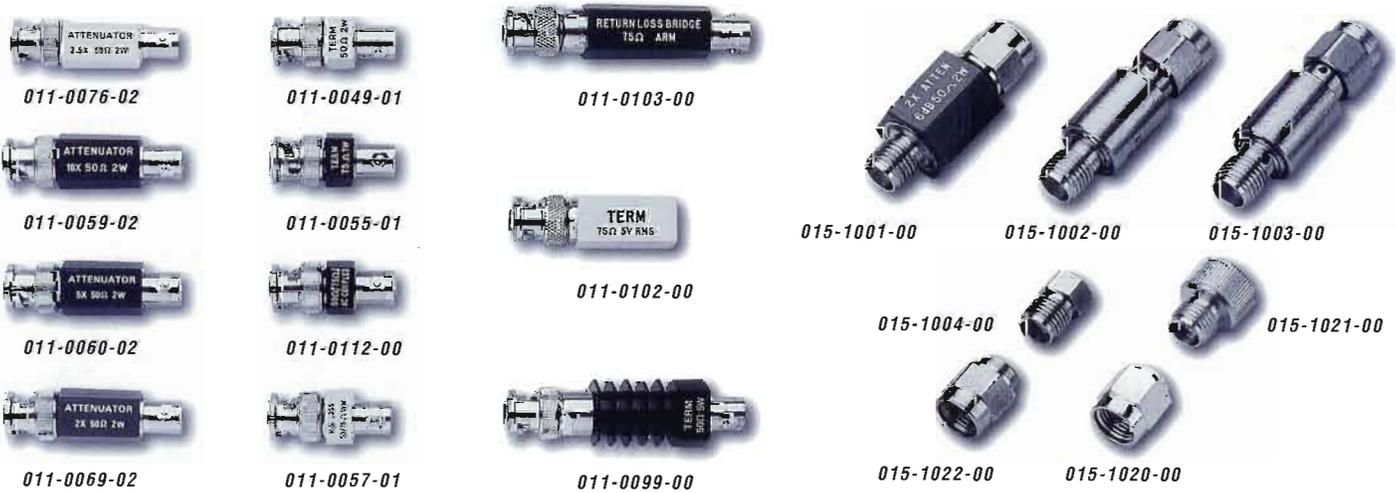
ATTENUATORS AND TERMINATORS

GENERAL PURPOSE ATTENUATORS AND TERMINATORS

A full range of attenuators and terminators are available to meet the needs of your testing applications. Designed to allow you to take full advantage of your Oscilloscope, Spectrum Analyzer and other test equipment.

Item No.	Impedance Ohms	Avg Power Watts	Maximum VSWR	Atten	Atten dB	Tolerance dB	Type
ATTENUATORS w/BNC CONNECTORS							
011-0069-02	50 +/- 2%	2	1.2 DC to 2 GHz	2x	6	+/- 0.5	Attenuator
011-0060-02	50 +/- 2%	2	1.2 DC to 2 GHz	5x	14	+/- 0.6	Attenuator
011-0059-02	50 +/- 2%	2	1.2 DC to 2 GHz	10x	20	+/- 0.6	Attenuator
011-0076-02	50 +/- 2%	2	1.2 DC to 2 GHz	2.5x	8	+/- 0.5	Attenuator
011-0057-01	50 to 75	2	1.1 DC to 100 MHz	2.3x	7.2	+/- 0.5	Min. Loss Attenuator
011-0112-00	75 to 50	2	(AC Coupled)	-	-	-	Min. Loss Attenuator
011-0118-00	50 to 75	-	-	-	-	-	Matching dBm to dBv
TERMINATORS w/BNC CONNECTORS							
011-0099-00	50 +/- 1%	5	1.2 DC to 500 MHz	NA	NA	NA	Feed-Through Termination
011-0049-01	50 +/- 2%	2	1.2 DC to 1 GHz	NA	NA	NA	Feed-Through Termination
011-0129-00	50 +/- 0.1%	2	-	NA	NA	NA	Feed-Through Termination
011-0055-01	75 +/- 1.33%	1	1.1 DC to 100 MHz	NA	NA	NA	Feed-Through Termination
011-0056-01	93 +/- 1%	1	1.1 DC to 100 MHz	NA	NA	NA	Feed-Through Termination
011-0092-00	600 +/- 0.5%	1	-	NA	NA	NA	Feed-Through Termination
011-0102-00	75 +/- 0.07%	0.5	-	NA	NA	NA	Coax Termination
011-0103-00	75 +/- 0.5%	0.125	-	NA	NA	NA	Return Loss Bridge
011-0155-00	50 +/- 2%	0.5	1.09 DC to 26.5 MHz	NA	NA	NA	Coax Termination
ATTENUATORS w/SMA CONNECTORS							
015-1001-00	50 +/- 2%	1	1.35 DC to 18 GHz	2x	6	+/- 0.3	Attenuator
015-1002-00	50 +/- 20%	1	1.35 DC to 18 GHz	5x	14	+/- 0.5	Attenuator
015-1003-00	50 +/- 2%	2	1.35 DC to 18 GHz	10x	20	+/- 0.5	Attenuator
TERMINATORS w/SMA CONNECTORS							
015-1004-00	50 +/- 1%	0.5	1.05 DC to 18 GHz	NA	NA	NA	Termination (F)
015-1020-00	-	-	-	NA	NA	NA	Short Circuit Termination (M)
015-1021-00	-	-	-	NA	NA	NA	Short Circuit Termination (F)
015-1022-00	50 +/- 1%	0.5	-	NA	NA	NA	Termination (M)

(M) Male (F) Female



CABLES AND CONNECTORS



COAXIAL BNC CABLES

Part Number	Description
50 Ohm	
012-0057-01	42 in., Male to Male
012-0076-00	18 in., Male to Male
012-0104-00	18 in., Male to Female
012-0208-00	10 in., Male to Male
012-0482-00	36 in., precision (1%) Male to Male
012-1341-00	36 in., Male to Male
012-1342-00	24 in., Male to Male
75 Ohm	
012-0074-00	42 in., Male to Male
012-0074-01	32 in., Male to Male
012-1337-00	60 in., Male to Male
012-1338-00	36 in., Male to Male
012-1339-00	24 in., Male to Male

COAXIAL SMA (3mm) CABLES

Part Number	Description
General Purpose Flexible Cables	
50 Ohm	
174-1364-00	12 in., Male to Male
174-1427-00	20 in., Male to Male
174-1428-00	60 in., Male to Male
174-0679-00	2 m, Male to Male
174-1120-00	8.5 in., Male to Male
174-1341-00	1 m, Male to Male

FIBRE OPTIC & DELAY CABLES

Part Number	Description
Precision, Flexible Delay Cables	
015-0560-00	2 ns, Male to Male
015-0561-00	5 ns, Male to Male
015-0562-00	1 ns, Male to Male
015-1005-00	2 ns, Male to Female
015-1006-00	5 ns, Male to Female
015-1019-00	1 ns, Male to Female
Fiber Optic Cables	
174-3096-00	50 m, Fiber Optic Cable
174-2324-00	2 m, Fiber Optic Cable, 62.5 micron, FC/PC to SMA 906
174-2323-00	2 m, Fiber Optic Cable, 62.5 micron, FC/PC to BICONIC
174-0876-00	2 m, Fiber Optic Cable, 100/140 micron, SMA to ST CONN
174-0878-00	2 m, Fiber Optic Cable, 100/140 micron, SMA to FC CONN
174-0879-00	2 m, Fiber Optic Cable, 100/140 micron, SMA to SMA
Semi-rigid Delay Cables	
015-1015-00	500 ps, 4.5, Male to Male
015-1017-00	750 ps, Male to Male

BANANA-JACK CABLES

Part Number	Description
BNC to Banana-jack, 18 in.	
012-0090-00	Black
012-0091-00	Red
Banana-Plug-jack to Banana-Plug-jack, 18 in.	
012-0031-00	Red
012-0039-00	Black

INTERFACE CABLES

Part Number	Description
 GPIB	
012-0991-00	2 m, double-shielded
012-0991-01	1 m, double-shielded
012-0991-02	4 m, double-shielded
012-1282-00	0.5 m GPIB
Centronics	
012-1233-00	3 m, 4693 to terminal
012-1214-00	8 ft, Male Centronics to PC 25-Pin D
012-1284-00	9 ft, Male to Male
RS-232C	
012-0911-00	10 ft, DB25 Male - DB25 Female, straight through
012-1285-00	9 ft, DB25 Male - DB25 Female, null modem
012-1298-00	9 ft, DB25 Male - DB9 Female, null modem
131-4923-00	DB25 Male - DB25 Male gender changer
174-1453-00	For 222/224
012-1241-00	9-Pin Female to 25-Pin Male
012-1379-00	9-Pin Female to 9-Pin Male
012-1380-00	9-Pin Female to 25-Pin Male
012-1398-00	RS-232C to plotter/printer
Telephone Extension Cables	
012-1364-00	84 in., RJ45 8-Position to RJ45 8-Position

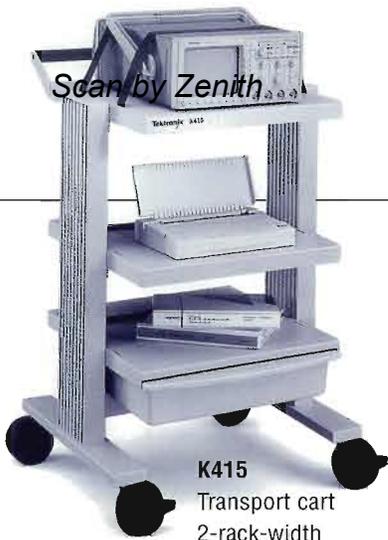
PRINTER

HC411 PRINTER

- Compatible with THS700 Series, TV110, TS100, TFS3031, CTS710 and CTS750
- Quiet thermal printer
- Built-in NiCad battery
- AC adapter and charger
- RS-232C serial and Centronics parallel interfaces
- Lightweight
- Enclosed paper supply
- Designed for portability



HC411 Printer with THS700 Series



K415
Transport cart
2-rack-width
shelves, plus a
storage drawer

INSTRUMENT CARTS

CARTS

Tektronix can free up your valuable work space, make sharing and moving equipment easy, and get you closer to the device under test.

Our ergonomically designed instrument **carts and workstations** bring a higher level of functionality to the end user, while safeguarding your instrument investment.

All new instrument carts and workstations can be configured to meet your specific requirements. The carts are shipped ready to assemble, allowing maximum configuration flexibility. The shelf height of the carts can be quickly and easily adjusted.

016-1239-00 Test Station

Slide out keyboard, organizes system hardware



016-1239-00
Test Station

K212

Portable instrument cart with tilting top tray and locking casters



K212

K420

Sturdy, portable rack-width cart w/tilting top tray & storage drawer



K420

K465

Portable instrument tower, tilt shelf, middle shelf & 3/4 printer shelf



K465

K475

Workstation tower w/extra long shelf and 3/4 shelves, 75 lbs/shelf



K475

SOFTWARE

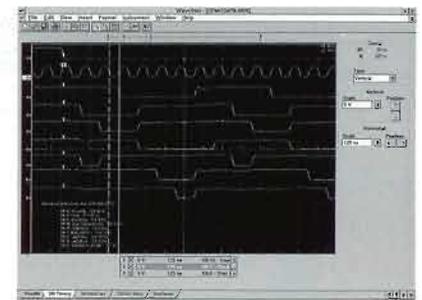
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- Capture Waveforms and Settings from DSOs
- Annotate, Organize, and Analyze Data
- Store Waveforms, Pictures, Settings and Notes
- Exchange Waveforms and Data with other Windows applications
- Restore Waveforms and Settings to DSO
- Windows 3.1 Application
- Operation has been verified under Windows 95

WaveStar is a new Windows™ application program from Tektronix that allows the user to quickly create an electronic lab notebook within their personal computer to record Tektronix Digital Storage Oscilloscope measurements. The waveform record includes all related screen shots, scope settings and notes. Further **WaveStar** Software provides a simple link to spreadsheet and documentation software, enabling users to analyze measurement records or incorporate them within other published materials.

WSTR31
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WaveStar™ Screen

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