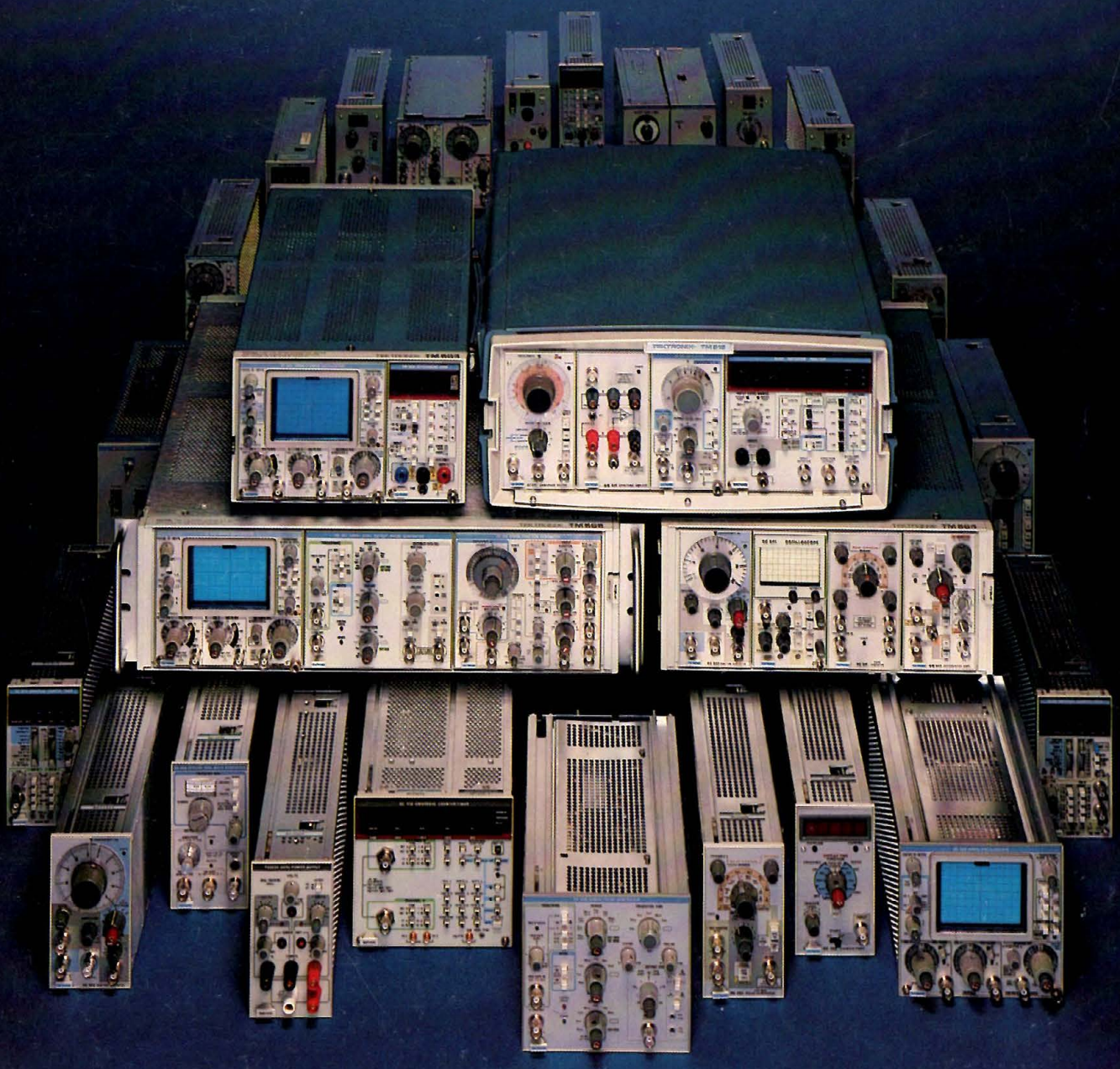
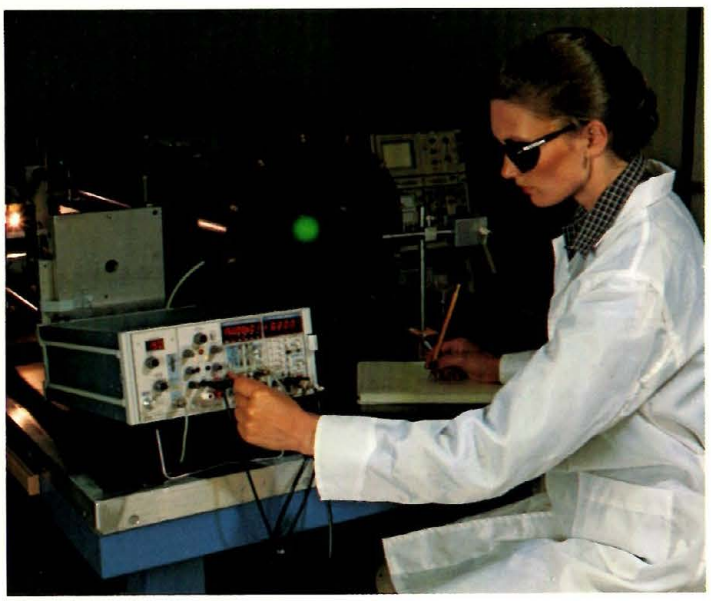
TEK TM 500 MODULAR TEST INSTRUMENTS

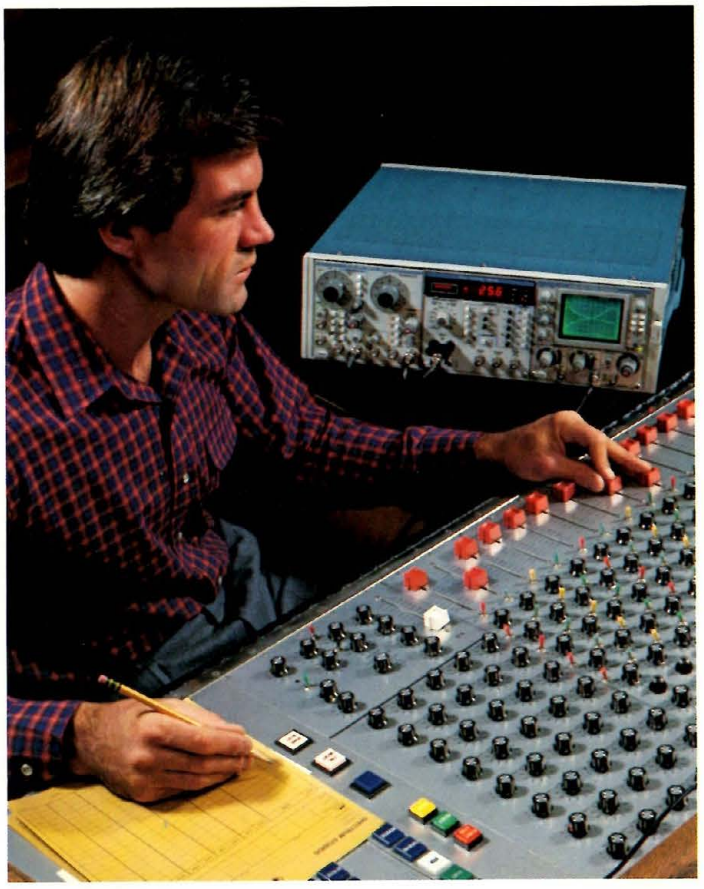
THE TEKTRONIX TM 500 SELECTION GUIDE



Tektronix
COMMITTED TO EXCELLENCE

TM 500: THE FAMILY THAT MADE CONFIGURABILITY FAMOUS.





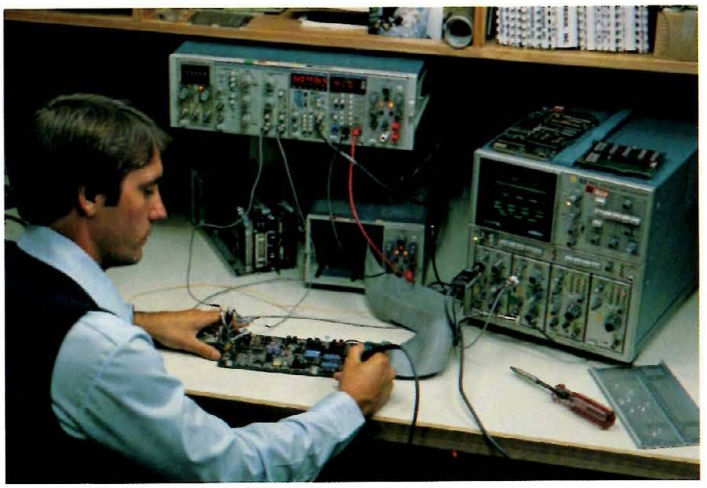
They're all here! Select among the world's most accepted general purpose test instruments. For years now, TM 500 has been the simplest, most compact solution to test and measurement requirements in extraordinarily diverse applications.

Nothing else offers this kind of capability: over 35 different plug-in modules that can be used individually or in combination, in a variety of mainframes. You can create your own personalized instrument setup from the total test and measurement instrument array.

Configurability. There's no better word for it. TM 500 is modular, integrated and flexible. But configurability—the ease with which its members can be combined to work together—is what sets TM 500 apart.

Each instrument is a plug-in module that fits neatly and trimly into any one of the eight available mainframes.

Research (Above). High-performance research applications are within the capability of many TM 500 plug-ins. There are several performance level choices within each instrument family for maximum cost-effectiveness.



All modules are interchangeable among mainframe compartments, so you can put together a system for one test, then reconfigure with the same or other plug-ins for a completely different application.

A TM 500 mainframe and plug-ins take less space than monolithic instruments. And less time to set up. The mainframe's rear panel interface connections help reduce cable clutter and simplify operation. And you can easily interface the plug-ins with devices external to the mainframe.

Hundreds of plug-in combinations are possible. A pulse generator with digital

Audio test and measurement (Above). TM 500 plug-ins have a valuable place in recording studios, stations, even at transmitter sites. The AA501 can measure intermod distortion for the highest performance audio systems.

General purpose applications (Left and opposite page). TM 500 plug-ins configure easily in four sizes of compact, benchtop mainframes. They take less space than a comparable set of monolithic instruments—and less time to set up.

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delay. A plug-in scope with function generator, counter/timer and digital multimeter. The choices are all yours.

TM 500 delivers the high performance needed to test sophisticated equipment. And there are several performance level choices within each instrument type for maximum cost-effectiveness.

Uses your imagination: a custom plug-in kit to span measurement gaps. TM 500 doesn't come up short if our standard instruments can't give you the solutions you need. The mainframes make room for custom plug-ins you can assemble yourself with TM 500 Custom Plug-In Kits, either one or two compartments wide. Each comes complete with a perforated circuit board, mechanical parts and instructional materials.

Build the specialized circuit that your application demands and plug it in beside standard instruments—a product of your own ingenuity.

Get racked, packed or ready to roll with TM 500 mainframes. Enjoy the same flexibility in mainframe packaging as in instrument configuration. There are eight different mainframes: bench, rackmount and portable versions, each with a built-in power supply.

TM 500 gives you two ways to go. For long-range portability, the TM 515 Traveler Mainframe takes up to five plug-ins, across town or across the country. It fits easily under airline seats, weighing in at about 30 pounds when fully loaded. With its snap-on covers, the TM 515 is both attractive and durable, offering the equivalent of a benchtop lab when you're at work in the field.

And for trips next door or down the hall, you can set one or more benchtop mainframes in the mounting trays of a Tek Lab Cart. Combine them mechanically, even electrically, with monolithic instruments on the same cart for an extremely versatile rollabout test laboratory. Slip down crowded aisles, across the production floor or into tight quarters, with everything you need to deliver the right solutions in a single trip.

But the real potential of TM 500 becomes clear in each new and unique application. With each test to which it's put, with each setup you create, TM 500 shows why it's the world's most accepted line of modular general purpose test instruments.

This guide has key specifications to help you select among TM 500 plug-ins and mainframes. A Tektronix Sales Engineer can provide additional assistance.

DIGITAL COUNTERS

TM 500 DIGITAL COUNTER SELECTION

	DC 510	DC 509	DC 503A	DC 504A
Number of digits	9	8	8	6
Frequency Range	350 MHz	135 MHz	125 MHz	100 MHz
Time Resolution Single Shot	3.125 ns	10 ns	100 ns	100 ns
Reciprocal Freq.	YES	YES	NO	NO
Period	YES, plus Averaging	YES, plus Averaging	YES, plus Averaging	YES, plus Averaging
Width Averaging	YES	YES	YES	YES
Time Interval Avg.	YES	YES	YES	NO
Auto-Trigger	YES	YES	NO	NO
Gated Events Avg.	B during A	B during A	A during B	NO
Other	High stability Timebase Option shaped outputs self test, phase modulated clock probe compensation	Timebase Option, Trigger level & shaped outputs, self-test, phase modulated clock, probe compensation	Timebase Option, Trigger level & shaped outputs, time manual, totalize	Timebase Option, rpm, Multiplier, 100X Resolution, Auto ranging

DP 501 DIGITAL PRESCALER

Extends frequency range of DL 510, DC 509, and DC 503A to 1.3 GHz.

DC 510 DC 509 DC 503A DC 504A DP 501

DIGITAL MULTIMETERS

TM 500 DIGITAL MULTIMETER SELECTION

		DM501A	DM502A
	Number of Digits	4½	3½
	Number of Functions	7	7
DC VOLTS	Ranges	200mV to 1000V	200mV to 1000V
	Accuracy	±0.05%	±0.1%
	Best Resolution	100μV	100μV
AC VOLTS	Ranges	200mV to 500V	200mV to 500V
	Accuracy	±0.6%	±0.6%
	Best Resolution	10μV	100μV
AC + DC CURRENT	Ranges	200μA to 2A	200μA to 2A
DB	Ranges	±54dB to −60dB	±50dB to −60dB
OHMS (HI-LO)	Ranges	200Ω to 20MΩ	200Ω to 20MΩ
TEMP	Range	−62°C to +240°C	−55°C to +200°C
	True RMS	Yes	Yes
	Auto Range		Yes

POWER SUPPLIES

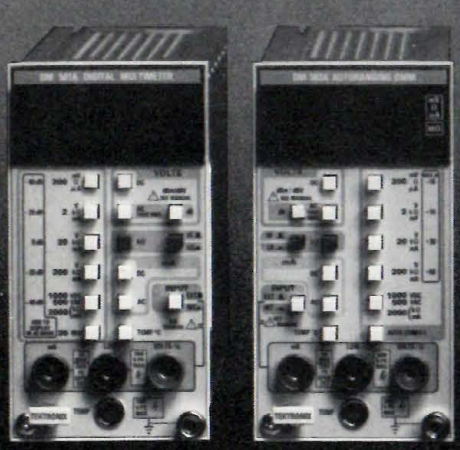
TM 500 POWER SUPPLY SELECTION

PS 503A

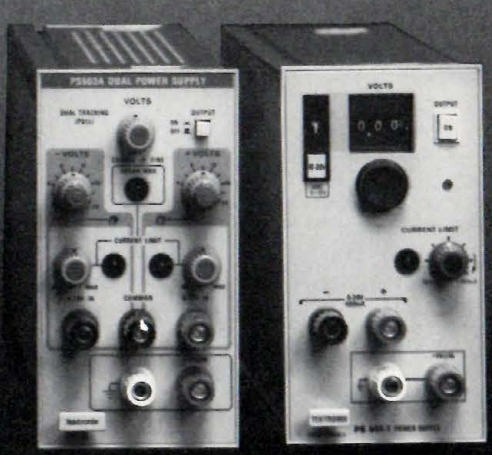
- 0 to ±20 V to 1 A (in high-power compartment)
- Independent + and − Controls
- Dual Tracking Voltage Control
- Remote Resistance Programming
- Over-Voltage Protection
- Fixed Output +5 V at 1 A

PS 501-1

- Floating Output, 0-20 V
- 0 to 400 mA
- 10 Turn High Resolution Potentiometer
- Precise Regulation, 3½ Digit Display
- Low Ripple and Noise
- Fixed Output +5 V at 1 A



DM 501A DM 502A



PS 503A PS 501-1

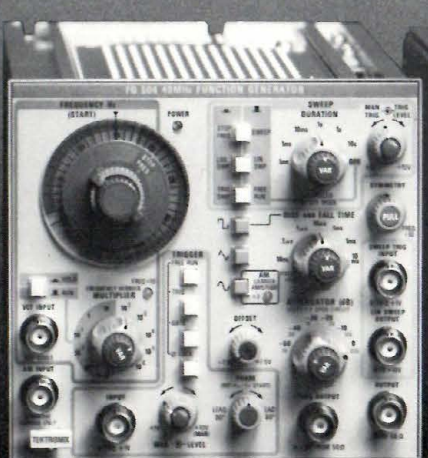
FUNCTION GENERATORS

TM 500 FUNCTION GENERATOR SELECTION

	FG 507	FG 501A	FG 504	FG 502	FG 503
Waveforms	Sine, Square, Triangle, Pulse & Ramp with variable symmetry			Sine, Square, Triangle, Pulse or Ramp	Sine, Square, Triangle
Symmetry	≤5% to ≥95% Variable	≤5% to ≥95% Variable	7% to 93% Variable	5%, 50%, 95% Fixed	50% Fixed
Frequency Range	0.002 Hz to 2 MHz	0.002 Hz to 2 MHz	0.001 Hz to 40 MHz	0.1 Hz to 11 MHz	1.0 Hz to 3 MHz
Custom Frequency Range	NO	NO	Shipped with capacitor for 20 Hz to 20 kHz	NO	With user-installed capacitor
Amplitude: Open Circuit	30 V p-p	30 V p-p	30 V p-p	10 V p-p	30 V p-p
Into 50 Ω	15 V p-p	15 V p-p	15 V p-p	5 V p-p	15 V p-p
Offset: Open Circuit	±13 V dc, Step attenuator decreases offset	±13 V dc, Step attenuator decreases offset	±7.5 V dc	±5 V dc	±7.5 V dc
Into 50 Ω	±6.5 V dc, Step attenuator decreases offset	±6.5 V dc, Step attenuator decreases offset	±3.75 V dc	±2.5 V dc	±3.75 V dc
PK Sig + Offset: Open Circuit	±15 V	±15 V	±20 V	±10 V	±15 V
Into 50 Ω	±7.5 V	±7.5 V	±11.25 V	±5 V	±6 V
Attenuator	0 to −60 dB in 20 dB steps. >20 dB additional with AMPL control	0 to −60 dB in 20 dB steps. >20 dB additional with AMPL control	0 to −50 dB in 10 dB steps. <10 mV p-p with VAR control	Variable control only	Variable control only
Amplitude Flatness (10 kHz ref, 50 Ω load) Sine wave	±0.1 dB, 20 Hz to 20 kHz ±0.5 dB, 20 kHz to 1 MHz ±1 dB, 1 kHz to 2 MHz	±0.1 dB, 20 Hz to 20 kHz ±0.5 dB, 20 kHz to 1 MHz ±1 dB, 1 kHz to 2 MHz	±0.5 dB, 0.001 Hz to 40 kHz	±0.5 dB, 20 Hz to 20 kHz ±1.5 dB, 0.1 Hz to 11 MHz	±0.5 dB, 20 Hz to 20 kHz ±2 dB, 0.1 Hz to 3 MHz
Triangle	±0.5 dB, 20 Hz to 200 kHz ±2 dB, 200 kHz to 2 MHz	±0.5 dB, 20 Hz to 200 kHz ±2 dB, 200 kHz to 2 MHz	±2 dB, 40 kHz to 40 MHZ	±3 dB referenced to Sine wave	±1 dB referenced to Sine wave
Square wave	±0.5 dB, 20 Hz to 2 MHz	±0.5 dB, 20 Hz to 2 MHz	±0.5 dB to 20 MHz ±2 dB to 40 MHz		
Sine wave distortion (Maximum Output, 50 Ω load)	≤0.25%, 20 Hz to 20 kHz ≤0.5%, 20 kHz to 100 kHz Harmonics, ≤ −30 dB, 100 kHz to 2 MHz	≤0.25%, 20 Hz to 20 kHz ≤0.5%, 20 kHz to 100 kHz Harmonics, ≤ −30 dB, 100 kHz to 2 MHz	≤0.5%, 20 Hz to 40 kHz Harmonics: ≤ −30 dB, 40 kHz to 1 MHz ≤ −20 dB, 1 MHz to 40 MHz	≤0.5%, 10 Hz to 50 kHz Harmonics, ≤ −30 dB, at all other frequencies	≤0.5%, 1 Hz to 30 kHz ≤1.0%, 30 kHz to 300 kHz ≤2.5%, 300 kHz to 3 MHz
Square wave Response	≤25 ns rise/fall	≤25 ns rise/fall	≤6 ns fixed, 10 ns to 100 ms variable	≤20 ns rise/fall	≤60 ns rise/fall
External Input	Impedance ≈2 k Ω, Trigger threshold level +1 V ±20%	Impedance ≈2 k Ω, Trigger threshold level +1 V ±20%	Impedance ≥10 k Ω Sensitivity ≤1 V p-p Trigger level −1 V to +10 V	Impedance ≈1 k Ω ≥ +2 V Gate signal required	NO
Trigger	±90° variable start phase control	±90° variable start phase control	20 MHz maximum, ±80° start phase to 10 MHz	NO	NO
Gate	±90° variable start phase control	±90° variable start phase control		Fixed 0° start phase	NO
Phase Lock	NO	NO	100 Hz to 40 MHz ±80° phase range	NO	NO
Counted Burst	With DD 501	With DD 501	With DD 501	With DD 501	NO
Internal Sweep	Logarithmic or Linear, Separate Start/Stop Dials	NO	Logarithmic or Linear, Separate Start/Stop Dials	NO	NO
Duration	1 ms to 100 s	n/a	0.1 ms to 100 s	n/a	n/a
External Trigger	+1 V trigger level		+1 V to 10 V trigger level		
Ramp Output	±0.3 V to 10 V from 1 k Ω		0 to +10 V from 1 k Ω		
Gate Output	≥ +4 V from 50 Ω		NO		
Amplitude Modulation	NO	NO	dc to 100 kHz mod freq.	NO	NO
Voltage Controlled Frequency (FM)	Up to 1000:1 frequency change with 0 V external signal.				
Trigger Output	≥ +4 V from 50 Ω	≥ +4 V from 50 Ω	≥ +2 V from 50 Ω	+2.5 V to 50 Ω load	+2.5 V to 600 Ω load

FG 507

FG 501A



FG 504

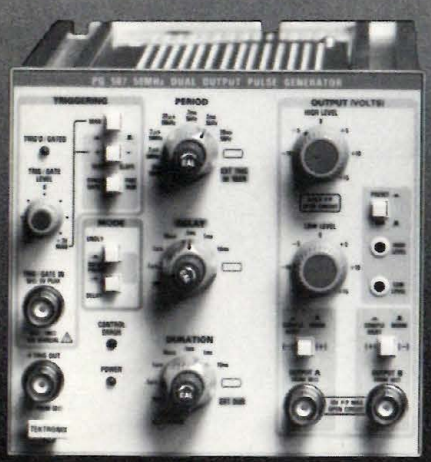
FG 502

FG 503

PULSE GENERATORS

TM 500 PULSE GENERATOR SELECTION

	PG 507	PG 508	PG 501	PG 502
Pulse Period		≤20 ns to ≥200 ms (50 MHz to 5 Hz)		≤4 ns to ≥100 ms (250 MHz to 10 Hz)
Pulse Duration		≤10 ns to ≥100 ms		≤2 ns to ≥50 ms
Square Wave Mode	YES	YES	NO	YES
Pulse Delay	≤10 ns to ≥100 ms	≤10 ns to ≥100 ms	Fixed, 20 ns from external trigger	Fixed, 17 ns from external trigger
Double Pulse	YES	YES	NO	NO
Transition Times	Fixed, ≤3.5 ns, ≤4 ns @ >5 V	≤5.5 ns to ≥50 ms, Independently variable up to 100:1	Fixed, ≤3.5 ns	Fixed, ≤1.0 ns
Aberrations	≤5% +25 mV pk into 50 Ω load	≤5% p-p, +50 mV for pulse within ±5 V into 50 Ω load	Within 3.5% at 5 V into 50 Ω load	Within 5% at 5 V p-p (duration ≥5 ns)
Amplitude: Into 50 Ω	≥7.5 V p-p, ±7.5 V window	≥10 V p-p, ±10 V window	≥5 V	5 V, ± 5 V window
Open Circuit	≥15 V p-p, ±15 V window	≥20 V p-p, ±20 V window	not specified	5 V, ±5 V window
Source Impedance	50 Ω	50 Ω	not specified	1 k Ω or 50 Ω
Simultaneous Outputs	YES, complementary	NO	Yes, positive and negative	NO
Output Controls	Independent pulse top and pulse bottom, normal or PRESET		Independent amplitude controls for + and − outputs, no offset	Independent pulse top and pulse bottom
Normal/Complement	Yes, both outputs	YES	NO	YES
Remote Amplitude	Rear interface inputs	Rear interface inputs	NO	NO
Locked on Mode	NO	NO	YES	NO
Back Termination	Always back terminated	Always back terminated	NO	YES, Switchable
External Input	1 MΩ or 50 Ω input impedance		50 Ω input Z	50 Ω input Z
Trigger Level	−3 V to +3 V, 80 mV p-p sensitivity to 10 MHz 250 mV p-p to 50 MHz, TRIG'D/GATED light		+1 V required	+1 V required
Slope	+ or −	+ or −	+ Only	+ Only
Trigger Mode	YES	YES	YES	YES
Manual Trigger	YES	YES	NO	YES
Duration Mode	YES	YES	YES	YES
Gate Mode	YES	YES	NO	NO
Counted Burst	YES, with DD 501	YES, with DD 501	NO	NO
Trigger Output	≥ +2 V from 50 Ω	≥ +2 V from 50 Ω	≥ +2 V from 50 Ω	≥ +2 V from 50 Ω
Custom Timing Positions	User installed capacitors	User installed capacitors	NO	NO
Control Error Light	YES	YES	NO	NO



PG 507

PG 508

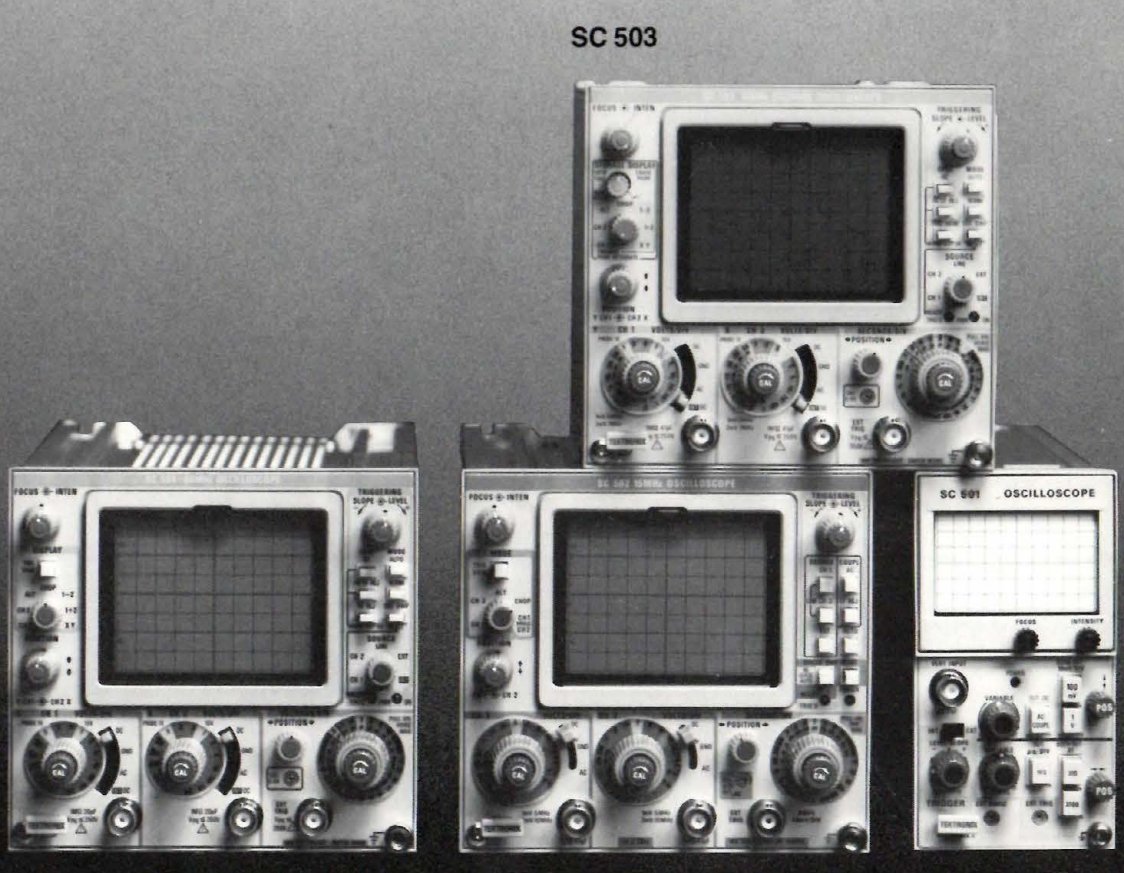
PG 501

PG 502

OSCILLOSCOPES

TM 500 OSCILLOSCOPE SELECTION

	SC 504	SC 502	SC 503	SC 501
Vertical (Y) axis	Dual-trace, 80 MHz, 5 mV/div to 10 V/div, Alt, CHOP, CH 1 minus CH 2, CH1 + CH 2, X-Y modes	Dual-trace, 15 MHz, 1 mV/per div to 20 V/div (5 and 10 MHz bandwidth at 1 and 2 mV) ALT, CHOP, and CH 1 minus CH 2 modes	Dual-trace, 10 MHz, 1 mV/div to 20 V/div, Alt, CHOP, CH 1 minus CH 2, CH 1 + CH 2, X-Y modes	5 MHz bandwidth, 10 mV/div to 10 V/div
Horizontal (X) axis	Triggered sweep 50 ns/div to .02 s/div with X10 magnifier. Enhanced auto trig, line ext/int trig, single sweep, external horizontal input, variable trigger holdoff	Triggered sweep 200 ns/div to 0.5 s/div with X10 magnifier, enhanced auto trig, line ext/int, trig, single sweep, external horizontal input, variable trigger holdoff	Triggered sweep 50 ns/div to 2 sec/div with X10 magnifier. Enhanced auto trig, line, ext/int trig, single sweep, external horizontal input, variable trigger holdoff	Triggered sweep 1 μs/div to 1 s/div with X5 magnifier to 200 ns/div, normal/auto trigger, internal/external-trigger, external horizontal input
Other features	Trigger view, switchable rear interface capability	Trigger view	Bistable storage, auto erase, rear interface capability, trigger view	Compact display



OSCILLOSCOPE CALIBRATION INSTRUMENTS

TM 500 OSCILLOSCOPE CALIBRATION INSTRUMENTS SELECTION

CG 5001 PROGRAMMABLE OSCILLOSCOPE CALIBRATION GENERATOR

- Automated Oscilloscope Calibration
- Fully Programmable, IEEE-488 Compatible
- "LEARN" mode for simplified programming
- 40 μV to 200 V Square Waves for Voltage Calibration
- 1 mA to 100 mA Square Waves for Current Calibration
- 0.4 μS to 5 S Time Markers
- $\leq$1.3 nS Risetime Pulse for Risetime Verification
- Manual or programmed operation
- Requires TM 5003 or TM 5006 Mainframe

SG 504 LEVELED SINE WAVE GENERATOR

- Leveled, Variable Output
- 245 MHz to 1050 MHz
- Frequency Modulation Capability
- 0.5 V to 4.0 V p-p Amplitude Range
- Frequency Accuracy $\pm$2% of Dial Indication

SG 503 LEVELED SINE WAVE GENERATOR

- Leveled, Variable Output
- 250 kHz to 250 MHz
- Digital Readout of Frequency
- 5 mV to 5.5 V p-p into 50 Ω Amplitude Range
- Frequency Accuracy within $\pm$0.7 of one count of the least significant displayed digit

SG 502 OSCILLATOR

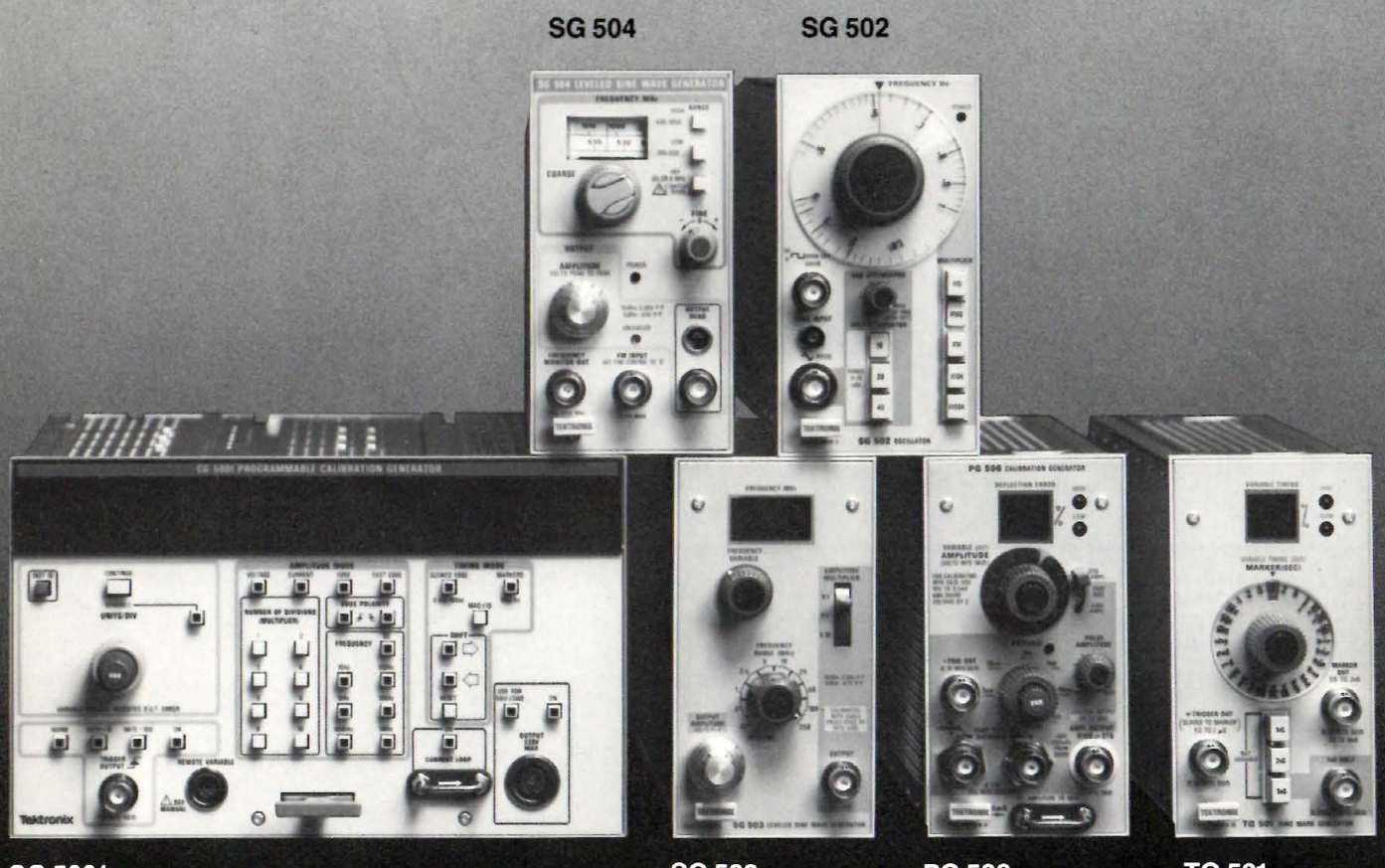
- 5 Hz to 500 kHz Sine and Square Waves
- Low Distortion Sine Wave
- 5 V Rms Open Circuit—600 Ω Source
- 0-40 dB Output Variable Plus 0-70 dB in 10 dB Steps

PG 506 CALIBRATION GENERATOR

- Amplitude Calibration 200 μV to 100 V
- Direct Readout of Oscilloscope Deflection Error
- 10 Hz to 1 MHz
- 5 mA Current Loop for Current Probe Calibration
- Three Square-Wave Output Modes
- Selectable dc outputs

TG 501 TIME MARK GENERATOR

- Marker Outputs, 5 s to 1 ns
- Direct Readout of Oscilloscope Timing Error
- External Trigger Output
- Timing Error Readout Range to $\pm$7.5%



AUDIO/LOW FREQUENCY PLUG-INS

TM 500 AUDIO/LOW FREQUENCY PLUG-IN SELECTION

AA 501 DISTORTION ANALYZER

- Fully Automatic: No level setting, tuning or nulling
- .0025% Total System Harmonic Distortion plus Noise (THD + N)
- Novel Analog-Like "Bar Graph" plus Complete Digital Readout
- True rms or Average Responding in all modes
- Intermod Distortion Option Conforms to SMPTE, DIN and CCIF

Functions:

- Level (Volts, dBm or dB ratio with push-to-set 0 dB reference), THD + N, and optional IMD (SMPTE, DIN, or CCIF two-tone).

Input Level Range (Full Scale):

- 200 μV to 200V (Fully Differential Input)

Input Residual Noise:

- ≤3.0 μV (−108 dBm) with 80 kHz and 400 Hz Filters
- ≤1.5 μV (−114 dBm) with "A" Weighted Filter

SG 505 OSCILLATOR

- 10 Hz to 100 kHz Sine Wave (typically 9 Hz to 110 kHz)
- Ultra-Low Distortion—0.0008% THD (typically 0.0003%)
- Floating Output—600 Ω Source
- Vernier Frequency Control
- Isolated and Ground Referenced Sync Output
- Calibrated Output into 600 Ω—+10 dBm to −60 dBm

SG 505 OPTION 01 OSCILLATOR

- 10 Hz to 100 kHz Sine Wave (typically 9 Hz to 110 kHz)
- Ultra-Low Distortion—0.0008% THD (typically 0.0003%)
- Floating Output—600 Ω Source
- Vernier Frequency Control
- Isolated and Ground Referenced Sync Output
- Calibrated Output into 600 Ω—+10 dBm to −60 dBm
- Intermod Test Signal to SMPTE and DIN Standards

SG 505 OPTION 02 OSCILLATOR

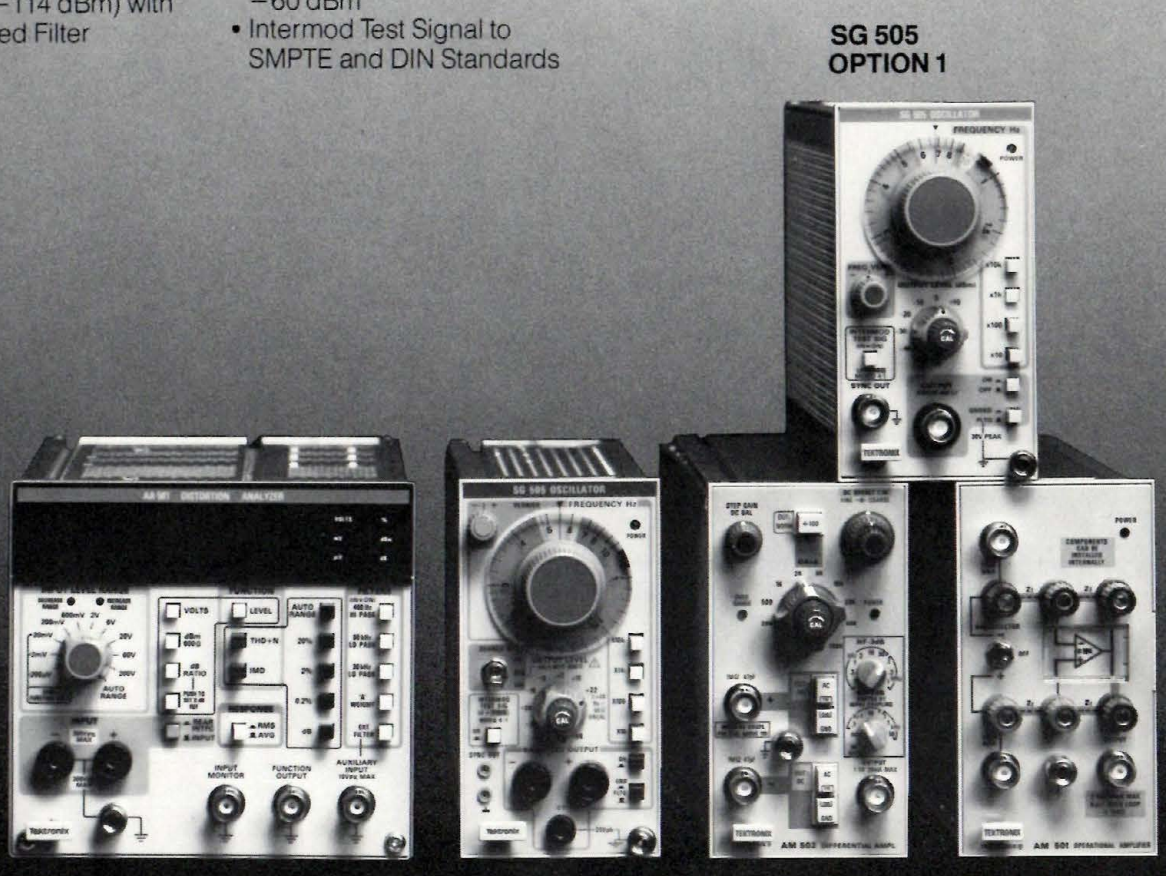
- High Level, Balanced Output
- +22 dBm into 600 Ω
- 10 Hz to 100 kHz Sine Wave (typically 9 Hz to 110 kHz)
- Ultra-Low Distortion—0.0008% THD (typically 0.0003%)
- Floating Output
- Selectable Output Impedances; 600 Ω, 150 Ω, and 50 Ω
- Vernier Frequency Control
- Isolated and Ground Referenced Sync Output
- Intermod Test Signal to SMPTE and DIN Standard

AM 502 DIFFERENTIAL AMPLIFIER

- 1 to 100,000 Gain
- 100 dB Cmrr
- Selectable Upper and Lower −3 dB Points
- Dc to 1 MHz Bandwidth
- Adjustable Dc Offset

AM 501 OPERATIONAL AMPLIFIER

- ±40 V, 50 mA Output
- Open Loop Gain 10,000
- 50 V/μs Slew Rate
- Symmetrical Differential Design



SPECIAL PURPOSE PLUG-INS

TM 500 SPECIAL PURPOSE PLUG-INS SELECTION

AM 503 CURRENT PROBE AMPLIFIER

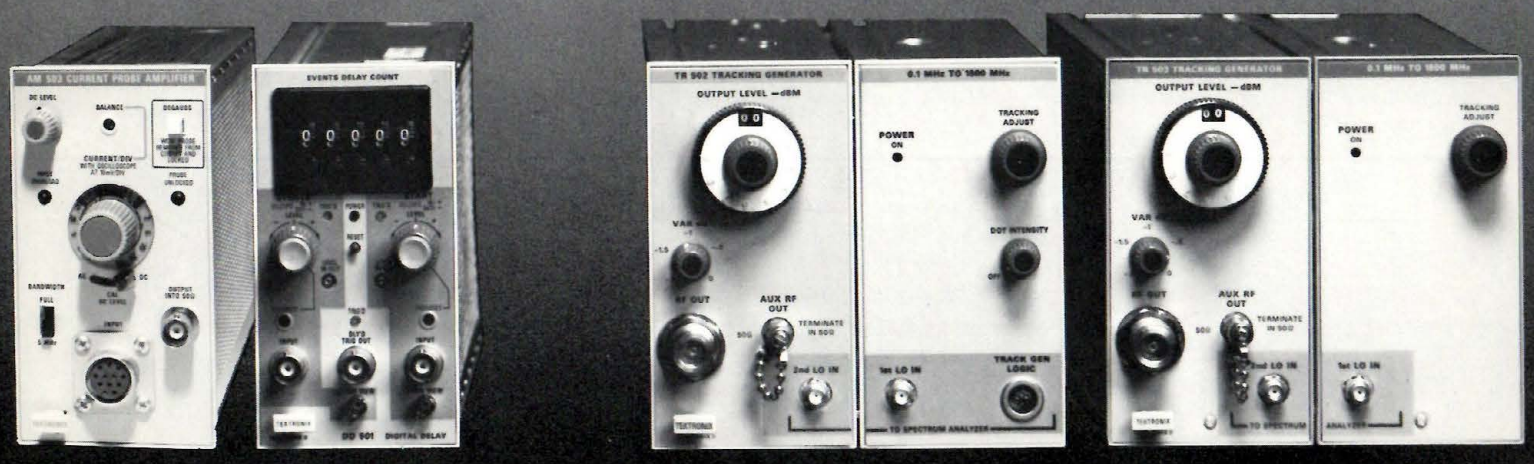
- 1 mA to 20 A, DC to 50 MHz
- 20 mA to 100 A, DC to 15 MHz
- Peak Pulse Measurements to 500 A

DD 501 DIGITAL DELAY

- Digital Events Delay
- Delay to 99,999 Events
- Divide By N Up to 20 MHz
- Pulse Counting to 65 MHz
- Time Delay with External Clock

TR 502/TR 503 TRACKING GENERATORS

- 100 kHz to 1800 MHz Swept-Frequency Tests with Tektronix 7L12, 7L14, and 490-Series Spectrum Analyzers
- Auxiliary RF Output Permits Counter Measurements of Signal Frequency Components



AM 503 DD 501 TR 502 TR 503

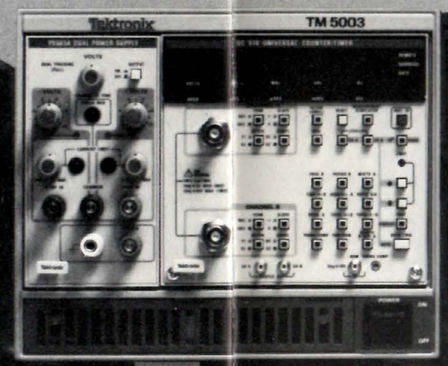
MAINFRAMES

TM 500 MAINFRAME SELECTION

	TM 501		TM 503		TM 504		TM 506		RTM 506		TM 515		TM 5003		TM 5006	
Capacity	1 Plug-in		3 Plug-ins		4 Plug-ins		6 Plug-ins		6 Plug-ins		5 Plug-ins		3 Plug-ins		6 Plug-ins	
Application	Single Instrument		Bench/ Compact		Bench/ Compact		Bench		Standard Rack		Travel-lab		Bench		Bench	
Dimensions	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Width	99	3.9	221	8.7	305	12.0	442	17.4	483	19.0	381	15.0	230	9.0	445	17.5
Height	152	6.0	152	6.0	152	6.0	152	6.0	133	5.3	173	6.8	194	7.6	194	7.6
Depth	389	15.3	432	17.0	506	20.0	506	20.0	480	18.9	506	20.0	488	19.2	488	19.2
Weight ≈	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Net	2.4	5.4	4.3	9.5	8.4	18.5	13.2	29.0	14.4	32.0	10.2	22.5	8.6	19.0	14.5	32.0
Shipping	5.9	13.0	7.7	17.0	11.8	26.0	18.6	41.0	21.0	46.0	13.6	30.0	12.0	26.5	20.9	46.0

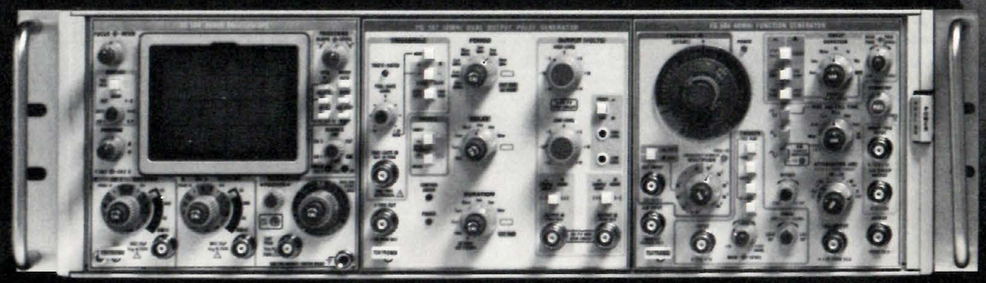
TM 5003

TM 515



TM 501

RTM 506



SUMMARY

TM 500 PRODUCT SELECTION SUMMARY

COUNTERS

DC 503A	125 MHz Universal Counter/ Timer
DC 504A	100 MHz Digital Counter
DC 509	135 MHz Universal Counter/ Timer
DC 510	350 MHz Universal Counter/ Timer
DP 501	1.3 GHz Digital Prescaler

DIGITAL MULTIMETERS

DM 501A	4.5 Digital Multimeter
DM 502A	3.5 Digital Multimeter

POWER SUPPLIES

PS 501-1	Power Supply
PS 503A	Triple Power Supply

FUNCTION GENERATORS

FG 501A	2 MHz Function Generator
FG 502	11 MHz Function Generator
FG 503	3 MHz Function Generator
FG 504	40 MHz Function Generator
FG 507	2 MHz Sweeping Function Generator

PULSE GENERATORS

PG 501	50 MHz Pulse Generator
PG 502	250 MHz Pulse Generator
PG 507	50 MHz Dual-Output Pulse Generator
PG 508	50 MHz Pulse Generator

OSCILLOSCOPES

SC 501	5 MHz Oscilloscope
SC 502	15 MHz Oscilloscope
SC 503	10 MHz Bistable Storage Oscilloscope
SC 504	80 MHz Oscilloscope

OSCILLOSCOPE CALIBRATION INSTRUMENTS

CG 5001	Programmable Oscilloscope Calibration Generator
PG 506	Calibration Generator
TG 501	Time Mark Generator
SG 502	Oscillator
SG 503	Leveled Sine Wave Generator
SG 504	Leveled Sine Wave Generator

AUDIO/LOW FREQUENCY PLUG-INS

AA 501	Distortion Analyzer
SG 505	Oscillator
AM 501	Operational Amplifier
AM 502	Differential Amplifier

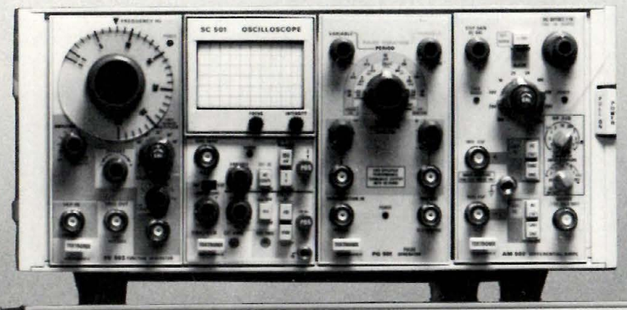
SPECIAL PURPOSE PLUG-INS

DD 501	Digital Delay
DL 502	Digital Latch
TR 503	Tracking Generator
TR 502	Tracking Generator
AM 503	Current Probe Amplifier

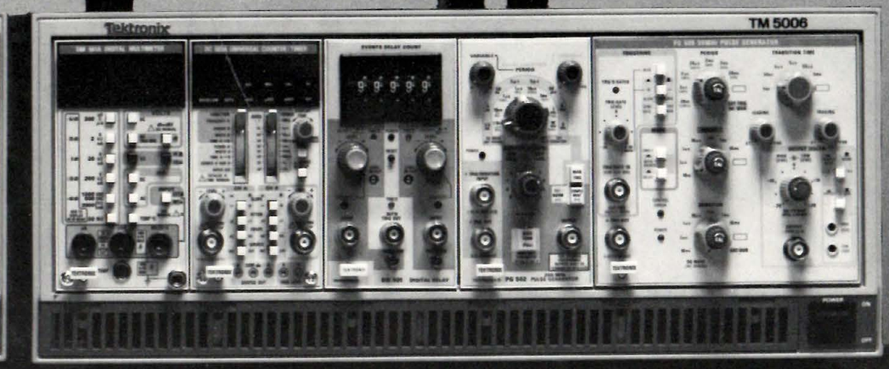
MAINFRAMES

TM 501	One-wide Mainframe
TM 503	Three-wide Mainframe
TM 504	Four-wide Mainframe
TM 506	Six-wide Mainframe
RTM 506	Six-wide Rackmount Mainframe
TM 515	Five-wide Traveler Mainframe
TM 5003	Three-wide Mainframe (GPIB)
TM 5006	Six-wide Mainframe (GPIB)

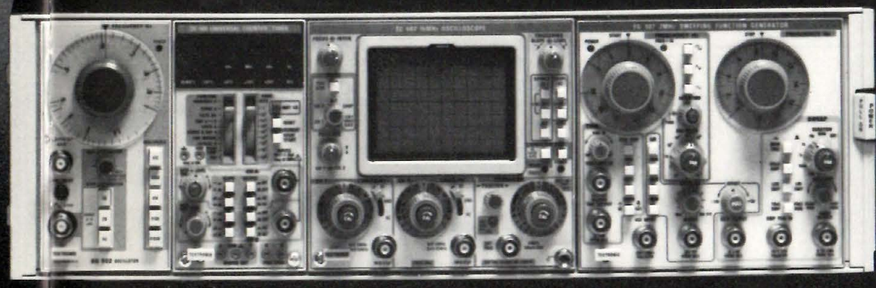
TM 504



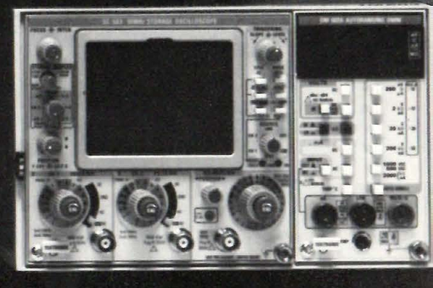
TM 5006



TM 506



TM 503



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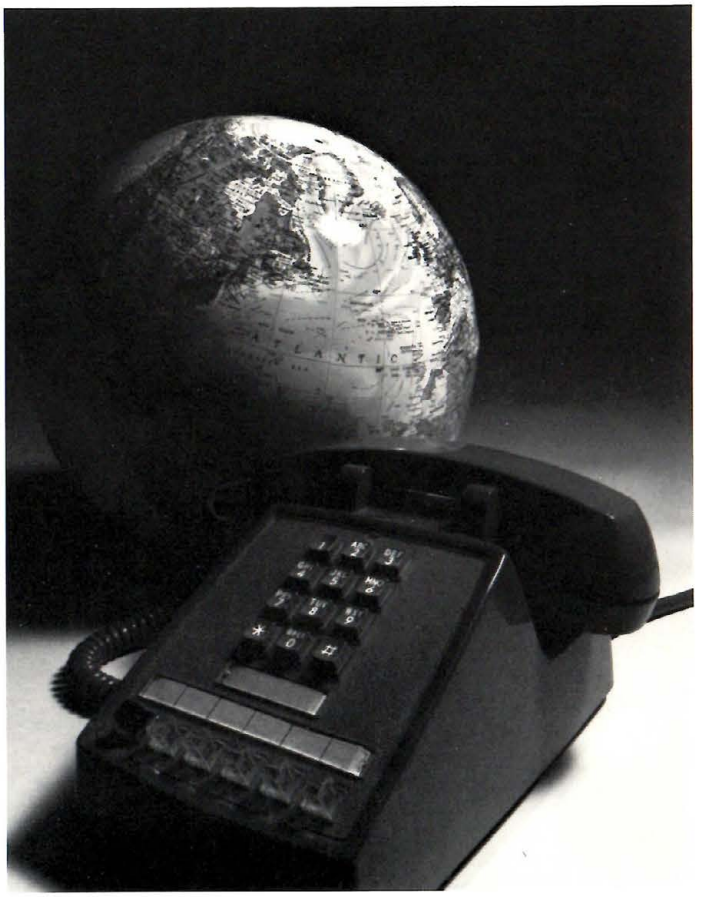

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