#### **Errata**

Title & Document Type: 54600A/54601A Oscilloscope Programmer's Quick Reference

Manual Part Number: 54600-90911

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#### **HP References in this Manual**

This manual may contain references to HP or Hewlett-Packard. Please note that Hewlett-Packard's former test and measurement, semiconductor products and chemical analysis businesses are now part of Agilent Technologies. We have made no changes to this manual copy. The HP XXXX referred to in this document is now the Agilent XXXX. For example, model number HP8648A is now model number Agilent 8648A.

### **About this Manual**

We've added this manual to the Agilent website in an effort to help you support your product. This manual provides the best information we could find. It may be incomplete or contain dated information, and the scan quality may not be ideal. If we find a better copy in the future, we will add it to the Agilent website.

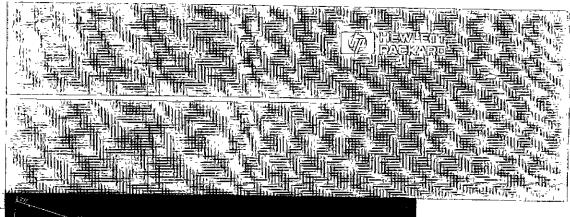
### **Support for Your Product**

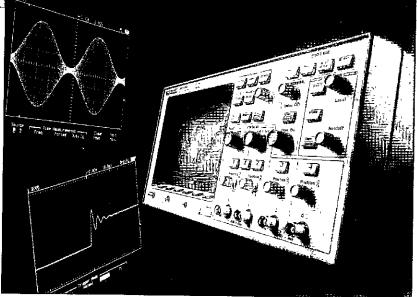
Agilent no longer sells or supports this product. You will find any other available product information on the Agilent Test & Measurement website:

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Search for the model number of this product, and the resulting product page will guide you to any available information. Our service centers may be able to perform calibration if no repair parts are needed, but no other support from Agilent is available.







Programmer's Quick Reference

HP 54600A and HP 54601A Oscilloscopes

# Error Messages

Error Number	Description	Error Number	Description
		-160	Block data error
-100	Command error (unknown command)	-161	Invalid block data
-101	Invalid character	-168	Block data not allowed
-102	Syntax error		1
-103	Invalid separator	-170	Expression error
-104	Data type error	-171	Invalid expression
-105	GET not allowed	-178	Expression data not allowed
-108	Parameter not allowed		
-109	Missing parameter	-200	Execution error
-112	Program mnemonic too long	-211	Trigger ignored
-113	Undefined header	-221	Settings conflict
	]	-222	Data out of range
-121	Invalid character in number	-223	Too much data
-123	Numeric overflow		
-124	Too many digits	-310	System error
-128	Numeric data not allowed	-350	Too many errors
-130	Suffix error	-400	Query error
-131	Invalid suffix	-410	Query INTERRUPTED
-138	Suffix not allowed	-420	Query UNTERMINATED
		-430	Query DEADLOCKED
-140	Character data error	-440	Query UNTERMINATED
- 141	Invalid character data		after indefinite response
- 144	Character data too long		
-148	Character data not allowed		
450			j
<b>-150</b>	String data error	ļ	İ
-151	Invalid string data		
-152	String data not allowed		İ

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# **Programmer's Quick Reference**

## Introduction

The following section lists the commands and queries with their corresponding arguments and returned formats. The arguments for each command list the minimum argument required. The part of the command or query listed in uppercase letters refers to the short form of that command or query. The long form is the combination of uppercase and lowercase letters.

### Conventions

The following conventions are used in this section:

< > Angular brackets enclose words or characters that symbolize a program code parameter or an HP-IB command.

:: = "is defined as." For example, <A> :: = <B> indicates that < A > can be replaced by < B > in any statement containing <A>.

"or." Indicates a choice of one element from a list. For example,  $\langle A \rangle \mid \langle B \rangle$  indicates  $\langle A \rangle$  or  $\langle B \rangle$  but not both.

... An ellipsis (trailing dots) indicate that the preceding element may be repeated one or more times.

[] Square brackets indicate that the enclosed items are optional.

{ } When several items are enclosed by braces, one, and only one of these elements may be selected.

Suffix Multipliers The suffix multipliers available for arguments are:

EX ::= 1E18	M ::= 1E-3
PE ::= 1E15	U :: = 1E-6
T ::= 1E12	N ::= 1E-9
G := 1E9	P := 1E-12
MA := 1E6	F :: = 1E-15
K ::= 1E3	A ::= 1E-18

For more information on specific commands or queries, refer to the Programmer's Reference.

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*CLS	(Clear Status)	command
Command Syntax:	*CLS	
*ESE	(Event Status Enable)	command/query
Command Syntax:	*ESE {0 to 255}	
Query Syntax:	*ESE?	
Returned Format:	{integer, 0 to 255} <nl></nl>	
*ESR	(Event Status Register)	query
Query Syntax:	*ESR?	
Returned Format:	{integer, 0 to 255} <nl></nl>	
*IDN	(Identification Number)	query
Query Syntax:	*[DN?	
Returned Format:	HEWLETT-PACKARD, 54600A, O, X.X <nl></nl>	
*LRN	(Learn)	query
Query Syntax:	*LRN?	•
Returned Format:	:SYSTem SETup #800000121 <learn string=""><nl></nl></learn>	
*OPC	(Operation Complete)	command/query
Command Syntax:	*OPC	, ,
Query Syntax:	*OPC?	
Returned Format:	1 <nl></nl>	
*OPT	(Option)	query
Query Syntax:	*0PT?	•
Returned Format:	D <nl></nl>	
*RCL	(Recall)	command
Command Syntax:	*RCL {1 to 16}	

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\*RST (Reset) command Command Syntax: \*RST \*SAV (Save) command Command Syntax: \*SAV {1 to 16} \*SRE (Service Request Enable) command/query Command Syntax: \*SRE (0 to 255) Query Syntax: \*SRE? Returned Format: 9nask><NL> Where: qmask> ::= sum of all bits set - integer, 0 to 255 \*STB (Status Byte) query Query Syntax: \*STB? Returned Format: {integer, 0 to 255}<NL> \*TRG (Trigger) command Command Syntax: \*TST (Test) query Query Syntax: \*TST? Returned Format: {O or non-zero value}<NL> Where: 0 ::= test passed non-zero ::= test failed \*WAI (Wait) command Command Syntax: \*WAI :ACQuire:COMPlete command/query Command Syntax: :ACQuire:COMPlete {0 to 100} Query Syntax: :ACQuire:COMPlete?

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Returned Format:

{integer, 0 to [00]<NL>

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:ACQuire:COUNt command/query Command Syntax: :ACQuire:COUNt {8 | 64 | 256} Query Syntax: :ACQuire:COUNt? Returned Format: { 8 | 64 | 256}<NL> :ACQuire:POINts query Query Syntax: :ACQuire:POINts? **Returned Format:** {integer, 1 to 4000}<NL> :ACQuire:Setup query Query Syntax: :ACQuire:SETup? Returned Format: <string>NL> :ACQuire:TYPE command/query Command Syntax: :ACQuire:TYPE {NORMal | AVERage | PEAK} Query Syntax: :ACQuire TYPE? Returned Format: {NORM | AVER | PEAK}<NL> :ASTore command Command Syntax: :ASTore :AUToscale command Command Syntax: :AUTosca le :BLANK command Command Syntax: :BLANk {CHANne1{1 | 2 | 3 | 4} | PMEMory{1 | 2}} :CHANnel{1 | 2 }:BWLimit command/query Command Syntax: :CHANnel(1 | 2):BWLimit {ON | OFF} Query Syntax: :CHANnel{1 | 2}:BWL imit? Returned Format: {ON | OFF}<NL>

Programmer's Quick Reference

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# :CHANnel{1 | 2 | 3 | 4}:COUPling

# command/query

Command Syntax: :CHANnel ({1 | 2 }:COUPling {AC | DC | GND} | {3 | 4 }:COUPling {DC | GND}}

Query Syntax: -CHANne1{1 | 2 |3 |4 }:COUP1ing?

Returned Format: {AC | DC | GND}-NL> for Channels 1 and 2

{DC |GND}<NL> for Channels 3 and 4

# :CHANnel{1 | 2}:INVert

command/query

Command Syntax: :CHAMne1{1 | 2}:INVert {0N | OFF}

Query Syntax: :CHANne1{1 | 2}:INVert?

Returned Format: {ON | OFF}

### :CHANnel:MATH

# command/query

Command Syntax: :CHANne1:MATH {OFF | PLUS | SUBtract}

Query Syntax: :CHAMne1:MATH?

Returned Format: {0FF | PLUS | SUB}

# :CHANnel{1 | 2 | 3 | 4}:OFFSet

# command/query

Command Syntax: :CHANne | {1 | 2 | 3 | 4}:OFFSet <offset value>

# :CHANnel{1 | 2 | 3 | 4}:PROBe

# command/query

Command Syntax: :CHANne1{1 | 2 | 3 | 4}:PR0Be {X1 | X10 | X100}

Query Syntax. :CHANne1{1 | 2 | 3 | 4}:PROBe?

Returned Format: {X1 | X10 | X100}<NL>

# :CHANnel{1 | 2 | 3 | 4}:RANGe

## command/query

 $\label{lower_command} \textbf{Command Syntax:} \quad : \texttt{CHANnel}\{\{i \mid 2\} : \texttt{RANGe} < \texttt{full-scale range} \mid \{3 \mid 4\} : \texttt{RANGe} \mid \texttt{HIGH} \mid \texttt{LOW}\} \\$ 

Query Syntax: :CHANne1{1 | 2 | 3 | 4} RANGe?

Returned Format: <exponential full-scale range><NL> for Channels 1 and 2

{HIGH | LOW}<NL> for Channels 3 and 4

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:CHANnel{1 | 2 | 3 | 4}:SETup

query

Query Syntax:

:CHAMne1<1 | 2 | 3 | 4>.SETup?

Returned Format: <strir

<string><NL>

:CHANnel{1 | 2}:VERNier

command/query

Command Syntax:

:CHANnel{1 | 2}:VERNier {ON | OFF}

Query Syntax: Returned Format:

:CHANnel·VERNier? {ON | OFF}<NL>

:DIGitize

command

Command Syntax:

:DIGitize CHANnel{1 | 2 | 3 | 4}, [,CHANnel{1 | 2 | 3 | 4}]

:DISPlay:COLumn

command/query

Command Syntax:

:DISPlay:COLumn {0 to 63}

Query Syntax:

:DISP?ay:COLumn?

Returned Format:

{integer, 0 to 63}<NL>

:DISPlay:DATA

command/query

Command Syntax:

:DISPlay:DATA #800016257<data>

Query Syntax:

:DISPlay:DATA?

Returned Format:

#800016257<data><NL>

:DISPlay:GRID

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Command Syntax:

DISPlay:GRID {ON | OFF}

Query Syntax: Returned Format:

DISPlay:GRID?
{ON | OFF}<NL>

:DISPlay:INVerse

command/query

command/query

Command Syntax:

DISPlay:INVerse {ON |OFF }

Query Syntax

:DISPlay: INVerse?

Returned Format.

{ON | OFF}<NL>

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Command Syntax: :DISPlay.LINE <quoted string> :DISPlay:PIXel command/query Command Syntax: :DISPlay:PIXel <x>, <y>, <intensity> :DISPlay:PIXel? <x>, <y> Query Syntax: Returned Format: <integer, intensity<NL> :DISPlay:ROW command/query Command Syntax: :DISPlay:ROW [1 to 20] Query Syntax: :DISPTay:ROW? Returned Format: {integer,1 to 20}<NL> :DISPlay:Setup query Query Syntax: :DISPlay:SETup? Returned Format: <string>NL> :DISPlay:SOURce command/query Command Syntax: :DISPlay:SOURce PMEMory{1 | 2} Query Syntax: :DISP1ay:SOURce? Returned Format: PMEM{1 | 2}<NL> :DISPlay:TEXT command Command Syntax:

:ERASe

:DITher

command

command/query

command

Command Syntax: :ERASe [PMEMory{1 | 2}]

Returned Format: {ON | OFF}<NL>

DISPlay: TEXT BLANK

DITher {ON |OFF}

DITher?

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Command Syntax:

Query Syntax:

:DISPlay:LINE

:MEASure:ALL

query

Query Syntax:

:MEASure:ALL?

Returned Format:

<FREQuency result>,<PERiod result>, <PWIDth result>,<NWIDth</pre>

result>,<RISetime result>,<FALLtime result>,<VPP result>, <DUTycycle result>,<VRMS result>,<VMAX result>,<VMIN result>,<VTOP result>,<VBASe

result>,<VAVerage result><NL>

:MEASure:DUTycycle

command/query

Command Syntax:

:MEASure:DUTycycle :MEASure:DUTycycle?

Query Syntax: Returned Format:

<exponential, dutycycle value><NL>

:MEASure:FALLtime

command/query

Command Syntax:

:MEASure:FALLtime

Query Syntax:

.MEASure:FALLtime?

Returned Format:

<exponential, falltime value><NL>

:MEASure:FREQuency

command/query

Command Syntax:

:MEASure:FREQuency

Query Syntax:

.MEASure:FREQuency?

**Returned Format:** 

<exponential, frequency value><NL>

:MEASure:NWIDth

command/query

Command Syntax:

:MEASure:NWIDth

Query Syntax:

:MEASure:NWIDth?

Returned Format:

<exponential, negative\_width value><NL>

:MEASure:PERiod

command/query

Command Syntax:

:MEASure:PER10d

Query Syntax:

:MEASure:PER rod?

Returned Format:

<exponential, period value><NL>

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:MEASure:PWIDth

command/query

Command Syntax: Query Syntax:

:MEASure:PWIDth :MEASure:PWIDth?

Returned Format:

<exponential, positive\_width value><NL>

:MEASure:RISetime

command/query

Command Syntax: Query Syntax:

:MEASure:RISetime :MEASure:RISetime?

Returned Format:

<exponential, risetime value><NL>

:MEASure:SCRatch

(Clear Results)

command

Command Syntax:

:MEASure:SCRatch

:MEASure:SHOW

command/query

Command Syntax:

.MEASure:SHOW {ON OFF}

Query Syntax:

:MEASure:SHOW?

Returned Format:

(ON OFF}<NL>

:MEASure:SOURce

command/query

Command Syntax:

:MEASure::SOURce CHAnnel {1 | 2 | 3 | 4}

Query Syntax:

:MEASure:SOURce?

Returned Format:

CHAN{1 | 2 | 3 | 4}<NL>

:MEASure:TDELta

query

Query Syntax:

:MEASure:TDELta?

Returned Format:

<exponential, delta time markers><NL>

:MEASure:TSTArt

command/query

Command Syntax:

:MEASure:TSTArt <start marker time>

Query Syntax:

:MEASure:TSTArt?

Returned Format:

<exponential, start marker time><NL>

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:MEASure:TSTOp command/query Command Syntax: :MEASure:TSTOp <stop marker time> Query Syntax: :MEASure: TSTOp? Returned Format: <exponential, stop marker time >> NL> :MEASure:TVOLt query Query Syntax: :MEASure:TVOLt? <voltage>,<slope><occurrence> **Returned Format:** <exponential, time of voltage crossing><NL> :MEASure:VAVerage command/query Command Syntax: :MEASure:VAVerage **Query Syntax:** :MEASure: VAVerage? Returned Format: <exponential, average voltage><NL> :MEASure:VBASe command/query Command Syntax: :MEASure:VBASe Query Syntax: :MEASure:VBASe? Returned Format: <exponential, base voltage><NL> :MEASure:VDELta query Query Syntax: :MEASure:VDELta? Returned Format: <exponential, delta voltage markers><NL> :MEASure:VMAX command/query Command Syntax: .MEASure: VMAX Query Syntax: .MEASure: VMAX? Returned Format: <exponential, maximum voltage >< NL> :MEASure:VMIN command/query Command Syntax: \_MEASure:VMIN **Query Syntax:** -MEASure: VMIN? Returned Format: <exponential, minimum voltage><NL>

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:MEASure:VPP

command/query

Command Syntax:

:MEASure:VPP

Query Syntax: Returned Format:

:MEASure:VPP? <exponential, peak-to-peak voltage><NL>

:MEASure:VRMS

(DC RMS)

command/query

Command Syntax:

:MEASure:VRMS :MEASure:VRMS?

Query Syntax: Returned Format:

<exponential, dc\_rms voltage><NL>

:MEASure:VSTArt

command/query

Command Syntax:

:MEASure:VSTArt <vmarker1 voltage>

Query Syntax: :

:MEASure:VSTArt?

Returned Format

<exponential, vmarker1 voltage>NL>

:MEASure:VSTOp

command/query

Command Syntax:

:MEASure:VSTOp <vmarker2 voltage>

Query Syntax:

:MEASure VSTOp?

Returned Format:

<exponential, vmarker2 voltage><NL>

:MEASure:VTIMe

query

Query Syntax:

:MEASure:VTIMe? <time from trigger>

Returned Format:

<exponential, voltage at specified time><NL>

:MEASure:VTOP

command/query

Command Syntax:

:MEASure:VTOP

Query Syntax:

:MEASure:VTOP?

Returned Format:

<exponential, top\_voltage><NL>

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```
:MENU
                                                                     command/query
      Command Syntax:
                          :MENU {0 to 16}
          Query Syntax:
                          :MENU?
       Returned Format:
                                                                                                     {integer, 1 to 16}<NL>
                Where:
                          <integer>::= 0 = Clear Menu
                                      1 = Channel 1
                                      2 = Channel 2
                                      3 = Channel 3
                                      4 = Channel 4
                                      5 = Math
                                      6 = Trigger Source
                                      7 = Trigger Mode
                                      8 = Trigger Slope
                                      9 = Main/Delayed (Horizontal)
                                      10 = Time Measurements
                                      11 = Voltage Measurements
                                      12 = Cursors
                                      13 = Trace
                                      14 = Setup
                                      15 = Display
                                      16 = Utility
:MERGe
                                                                                                    )(%)
                                                                            command
      Command Syntax:
                         :MERGe PMEMory{1 | 2}
:PRINt
                                                                                  query
          Query Syntax:
                          :PRINt? [HIRes]
:RUN
                                                                            command
     Command Syntax:
:STATus
                                                                                  query
          Query Syntax:
                          :STATus? {CHANne1{1 | 2 |3 |4 } | PMEMory{1 | 2}}
       Returned Format:
                          {ON | OFF}<NL>
                                                                                                    1) |
:STOP
                                                                            command
     Command Syntax:
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```

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:SYSTem:DSP

command

Command Syntax:

:SYSTem:DSP <quoted ASCII string>

#### :SYSTem:ERRor

query

Query Syntax: Returned Format: :SYSTem:ERRor?

<integer, error number×NL>

-158, String data not allowed

### Where:

<error number>::= +0. No error -100, Command error (unknown command) -160, Block data error -101, Invalid character -161, Invalid block data -102, Syntax error -168, Block data not allowed -103, Invalid separator -104, Data type error -170, Expression error -105, GET not allowed -171, Invalid expression -108, Parameter not allowed -178, Expression data not allowed -109, Missing parameter -112, Program mremonic too long -200, Execution error -113. Undefined header -121. Invalid character in number -211, Trigger ignored -123, Numeric overflow -124. Too many digits -221, Settings conflict -128, Numeric data not allowed -222, Data out of range -223, Too much data -130, Suffix error -131, Invalid suffix -138, Suffix not allowed -310, System error -140, Character data error -350, Too many errors -141, Invalid character data -144. Character data too long -400, Query error -148, Character data not allowed -410, Query INTERRUPTED -420, Query UNTERMINATED -150, String data error -430, Query DEADLOCKED -151. Invalid string data -440, Query UNTERMINATED after indefinite response

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### :SYSTem:KEY

### command/query

Command Syntax: Query Syntax:

:SYSTem KEY (-1 to 50) :SYSTem KEY?

Returned Format:

{integer, -1 to 50}<NL>

# 1)11)

#### Where:

```
<integer>::= -1 for NO KEY
                                   21 for STOP
                                                       43 for DELAY CW
            0 for AUTOSCALE
                                   22 for ERASE
                                                       44 for DELAY_CCW
            1 for CH1
                                   23 for SOFTKEY_1
                                                       45 for TRG LEVEL CW
            2 for CH2
                                   24 for SOFTKEY 2
                                                       46 for TRG_LEVEL_CCW
            3 for CH3
                                                       47 for TRG_HOLD_CW
                                   25 for SOFTKEY_3
            4 for CH4
                                   26 for SOFTKEY 4
                                                       48 for TRG HOLD CCW
            5 for +/-
                                   27 for SOFTKEY 5
                                                       49 for CURSOR_KNOB_CW
            6 for TRG SRC
                                  28 for SOFTKEY 6
                                                       50 for C URSOR_KNOB_CCW
            7 for TRG_MODE
                                  29 for CH1_VOLT CW
            8 for TRG SLOPE
                                  30 for CH1_VOLT_CCW
            9 for MAIN/DELAYED
                                  31 for CH1_POS_CW
            10 for TIME
                                   32 for CH1_POS_CCW
            11 for VOLTAGE
                                  33 for CH2_VOLT_CW
            12 for CURSORS
                                  34 for CH2 VOLT CCW
            13 for SAVE TRACE
                                  35 for CH2_POS_CW
36 for CH2_POS_CCW
            14 for SAVE SETUP
            15 for DISPLAY
                                   37 for CH3_POS CW
                                                                                         ( :K( )
            16 for PRINT/UTILITY 38 for CH3_POS_CCW
            17 NA
                                  39 for CH4 POS CW
            18 NA
                                   40 for CH4 POS CCW
            19 for RUN
                                  41 for S/DIV_CW
            20 for AUTOSTORE
                                  42 for S/DIV_CCW
```

CW denotes clockwise rotation of the knob. CCW denotes counter-clockwise rotation of the knob.

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:SYSTem:LOCK

command/query

Command Syntax:

:SYSTem:LOCK (ON |OFF)

Query Syntax:

:SYSTem:LOCK?

Returned Format:

{ON OFF}

:SYSTem:SETup

command/query

Command Syntax:

:SYSTem:SETup #800000121<setup data string>

Query Syntax.

:SYSTem:SETup?

Returned Format:

#800000121<setup data string><NL>

:TER

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1:)

### (Trigger Event Register)

query

Query Syntax:

Returned Format:

{1 | 0}<NL>

### :TIMebase:DELay

command/query

Command Syntax.

:TIMebase:DELay <delay time>

Query Syntax<sup>-</sup>

:TIMebase:DELay?

Returned Format

<exponential, delay time><NL>

### :TIMebase:MODE

command/query

Command Syntax:

:TIMebase:MODE {NORMal | DELayed | XY}

Query Syntax

:TIMebase:MODE?

Returned Format

{NORM | DEL | XY}<NL>

### :TIMebase:RANGe

command/query

Command Syntax:

:TIMebase:RANGe {20 ns to 50 s}

Query Syntax.

:TIMebase:RANGe?

Returned Format:

{exponential, 20 ns to 50 s}<NL>

## :TIMebase:REFerence

command/query

Command Syntax.

:TIMebase:REFerence {LEFT | CENTer}

Query Syntax

:TIMebase:REFerence?

Returned Format

{LEFT | CENT}<NL>

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:TIMebase:SETup query Query Syntax: :TIMehase:SETup? Returned Format: <string>NL> 1))) :TIMebase:VERNier command/query Command Syntax: :TIMebase:VERNier {ON | OFF} **Query Syntax:** :TIMebase:VERNier? Returned Format: (ON OFF)<NL> :TRIGger:COUPling command/query Command Syntax: :TRIGger:COUPling {AC |DC} **Query Syntax:** :TRIGger:COUPling? **Returned Format:** {AC |DC}<NL> :TRIGger:HOLDoff command/query Command Syntax: :TRIGger:HOLDoff <time> Query Syntax: :TRIGger:HOLDoff? Returned Format: <time><NL> (M) Where: <time> ::= exponential, 40 ns to 320 ms :TRIGger:LEVel command/query Command Syntax: :TRIGger:LEVel < level> Query Syntax: :TR[Gger:LEVe]? Returned Format: <exponential, trigger level in volts><NL> :TRIGger:MODE command/query Command Syntax: ·TRIGger:MODE (AUTLevel | AUTO | NORMal | SINGle | TV) Query Syntax: :TRIGger:MODE? Returned Format: {AUTL | AUTO | NORM | SING | TV}<NL> :TRIGger:NREJect command/query **((**-(( Command Syntax: :TRIGger:NREJect:{ON | OFF} Query Syntax: :TRIGger NREJect? Returned Format {ON | OFF}<NL> **Programmer's Quick Reference** HP 54600A/54601A

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:TRIGger:POLarity

command/query

Command Syntax:

:TRIGger:POLarity {POSitive | NEGative}

Query Syntax:

:TRIGger:POLarity?

Returned Format:

{POS | NEG}<NL>

:TRIGger:REJect

command/query

Command Syntax:

:TRIGger:REJect {Off [LF | HF}]

Query Syntax:

:TRIGger:REJect?

Returned Format:

{Off | LF | HF}<NL>

:TRIGger:Setup

Query Syntax:

:TRIGger:SETup?

Returned Format:

<string><NL>

:TRIGger:SLOPe

1) |

command/query

query

Command Syntax:

:TRIGger:SLOPe {POSitive | NEGative}

Query Syntax:

:TRIGger:SLOPe?

Returned Format:

{POS | NEG}<NL>

:TRIGger:SOURce

command/query

Command Syntax:

:TRIGger:SOURce {CHANnel{1 | 2 | 3 | 4} | EXTernal | LINE}

Query Syntax:

:TRIGger:SOURce?

Returned Format:

{CHAN{1 | 2 | 3 | 4} | EXT | LINE}<NL>

:TRIGger: TVHFreject

command/query

Command Syntax:

:TRIGger:TVHFreject {ON | OFF}

Query Syntax:

:TRIGger:TVHFreject?

Returned Format:

{ON | OFF}<NL>

:TRIGger: TVMode

command/query

Command Syntax:

:TRIGger:TVMode {FIELD1 | FIELD2 | LINE}

Query Syntax:

:TRIGger:TVMode?

Returned Format:

{FILED1 | FIELD2 | LINE}<NL>

HP 54600A/54601A Oscilloscopes

:VIEW command

Command Syntax: :VIEW {CHANne1{1 | 2 | 3 | 4} | PMEHory{1 | 2} }

:WAVEform:BYTeorder command/query (1)

Command Syntax: :WAVeform:BYTeorder {LSBFirst | MSBFirst}

Query Syntax: :WAVeform:BYTeorder?
Returned Format: {LSBF | MSBF}<NL>

:WAVeform:DATA command/query

Command Syntax: :WAVeform:DATA <br/>
<br/>
\*binary block data in # format>

:WAVeform:FORMat command/query

Command Syntax: :WAVeform:FORMat {ASCi1 | WORD | BYTE}

Query Syntax: :WAVeform:FORMat?

Returned Format: {ASC | WORD | BYTE}<NL>

:WAVeform:POINts query

Command Syntax: :WAVeform:POINts {100 | 200 | 250 | 400 | 500 | 800 | 1000 | 2000 | 4000}

Query Syntax: :WAVeform: POINts?

Returned Format: {100 | 200 | 250 | 400 | 500 | 800 | 1000 | 2000 | 4000 | <NL>

))))

**)** (() (

Programmer's Quick Reference 18

:WAVeform:PREamble

query

Query Syntax:

:WAVeform: PREamble?

Returned Format:

oreamble block><NL>

Where:

NR1>,<xincrement NR3>,<xorigin NR3>,<xreference NR1>,<yincrement

NR3>,<yorigin NR3>,<yreference NR1>

<format> ::= 0 for ASCII format

1 for BYTE format 2 for WORD format

<type> ::=

0 for AVERAGE type 1 for NORMAL type

2 for PEAK DETECT type

:WAVeform:SOURce

command/query

Command Syntax:

:WAVeform:SOURce CHANnel{1 | 2 | 3 | 4}

Query Syntax:

:WAVeform:SOURce?

**Returned Format:** 

CHAN{1 | 2 | 3 | 4}<NL>

y ()

). }

:WAVeform:TYPE

query

Query Syntax:

:WAVeform: TYPE?

**Returned Format:** 

{NORM | PEAK | AVER}<NL>

### :WAVeform:XINCrement

query

Query Syntax:

:WAVeform:XINCrement?

Returned Format:

<exponential, x-increment value><NL>

### :WAVeform:XORigin

query

Query Syntax:

:WAVeform: XOR ig in?

Returned Format:

<exponential.x-origin value><NL>

#### :WAVeform:XREFerence

query

Query Syntax:

WAVeform: XREFerence?

Returned Format:

<integer, x-reference value><NL>

HP 54600A/54601A Oscilloscopes

Programmer's Quick Reference

:WAVeform:YINCrement

query

Query Syntax:

:WAVeform:YINCrement?

Returned Format:

<exponential, y-increment value><NL>

:WAVeform:YORigin

query

Query Syntax:

:WAVeform:YORigin?

Returned Format:

<exponential, y-origin value><NL>

:WAVeform:YREFerence

query

Query Syntax:

:WAVeform: YREFerence?

Returned Format:

<integer, y-reference value><NL>

)#)}

Irigger Mode

Auto (VII Auto Noimm) Single (V 1 Coupling BW Lim Invert Vernier Probe 1 0# 2 TELEGE O SEE SEE SEE SEE SEE SEE Charles Color Colo Stope Stope 3 0P 4 Couping VDIV— Erec and received the received Probe 10 100 Cranck 14 " OLA GE, Polarity TV Mode HF Rej Horizontal Mode And the control of th De layed E RELEVENCE TO THE COLUMN TO T West State of the 1) Print Utility 

1)

