Agilent 35670A
GPIB Commands:
Quick Reference

This Quick Reference of the GPIB commands recognized by the Agilent 35670A lists the common commands and then lists the subsystem commands in alphabetical order. Figure 1 shows the Agilent 35670A status registers.

■ Syntax descriptions use the following conventions:

|	indicates "or"; one and only one of the items can be chosen
< >	indicates the name of items that need further definition
[ ]	indicates the enclosed items are optional
~	indicates a valid range of values

■ Add a "?" to make the query form of a command; commands listed with a "?" are query only; commands listed with a "-?" cannot be queried.

■ A ":" indicates branching points on the command tree.

■ Use ";" to send multiple commands within a single program message. The command parser assumes the second command comes from the same branch as the preceeding command.

■ Use ";:" to reset the command parser to the base of the command tree when sending multiple commands within a single program message.

■ The input defaults to channel 1 and the trace defaults to trace A if the optional [1|2|3|4] parameter is not specified.

■ To view the GPIB command which corresponds to a front panel operation, press [**Local/GPIB**] [GPIB ECHO ON OFF] to highlight **ON**.

■ For more information on a particular command refer to *GPIB Programming with the Agilent 35670A*.

Parameter Definitions:

<BLOCK>

If you are sending binary data using indefinite length syntax,
<BLOCK> takes the following form:
<BLOCK> ::= #0<data_byte>[,<data_byte>] . . .<LF><^END>
<data_byte> ::= unsigned 8-bit data
<LF> ::= line feed character, ASCII decimal 10
<^END> ::= GPIB END message (EOI set true)

If you are sending binary data using definite length syntax,
<BLOCK> takes the following form:
<BLOCK> ::= #<byte><length_bytes><data_byte>[<data_byte>] . . .
<byte> ::= number of length bytes to follow (ASCII encoded)
<length_bytes> ::= number of data bytes to follow (ASCII encoded)
<data_byte> ::= unsigned 8-bit data

If you are sending ASCII data, <BLOCK> takes the following form:
<BLOCK> ::= Integer[,Integer]. . . <LF>
or
<BLOCK> ::= Floating-point number[,Floating-point]. . . <LF>

<FILENAME> takes the following form:

<FILENAME> ::= '[MSIS:][\DIR_NAME\]filename'

where MSIS: must be replaced with:

RAM: which selects volatile RAM.
NVRAM: which selects non-volatile RAM.
INT: which selects the internal disk drive.
EXT[,<select_code>[,<unit_number>]]: which selects the external disk
drive.

\DIR_NAME\ ::= ASCII characters
(MS-DOS file systems only)

<MMEMNAME> takes the following form:

<MMEMNAME> ::= '[MSIS:][\DIR_NAME\]filename'
                    'MSIS:[\DIR_NAME\][filename]'
            _   'MSIS:[\DIR_NAME\]filename'
See <FILENAME> for additional information.

<MSINAME> takes the following form:

<MSINAME> ::= 'MSIS:[\DIR_NAME\]'
See <FILENAME> for additional information.

For more information about parameters, refer to chapter 2, "Introduction
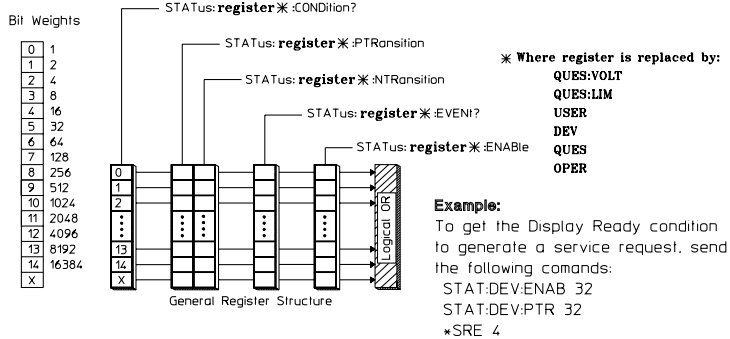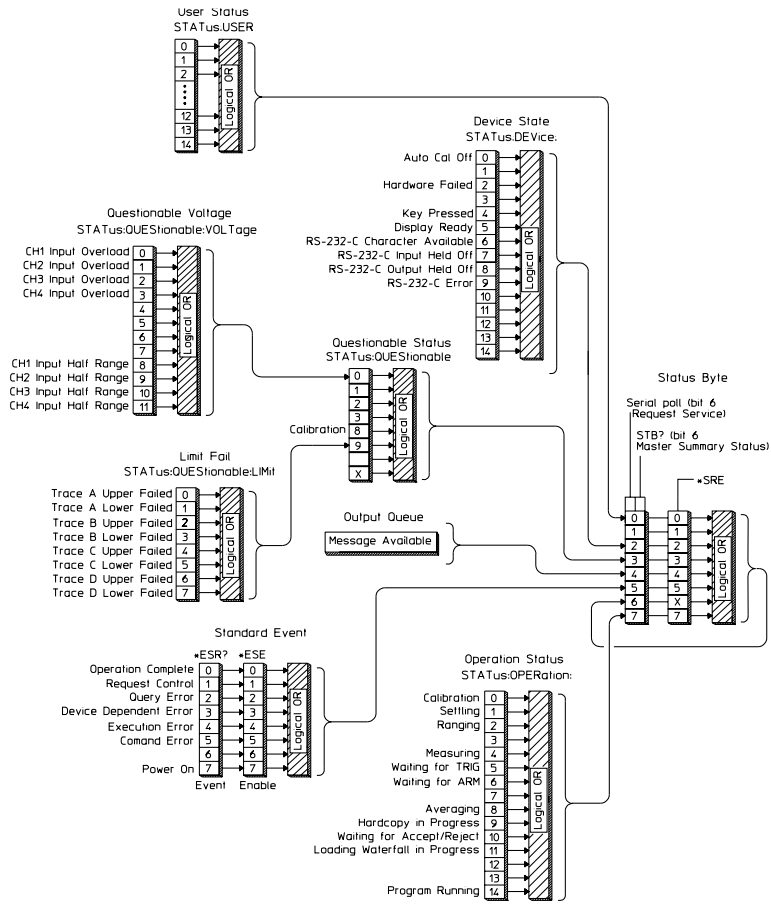to the Command Reference," in *GPIB Programming with the Agilent 35670A*.

Figure 1. HP 35670A Status Register Summary

Command List

Common Commands

*CAL?	Calibrates analyzer and returns the result
*CLS	Clears the Status Byte
*ESE 0~255	Sets or queries bits in the Standard Event Enable register
*ESR?	Reads and clears the Standard Event event register
*IDN?	Returns analyzer's identification string
*OPC	Enables the status bit to be set for completion of overlapped commands
*OPC?	Queries completion of overlapped commands
*OPT?	Returns analyzer's option configuration
*PCB-? 0~30[,0~30]	Sets the pass-control-back address
*PSC -32767~32767	Sets or queries Power-On Status Clear flag
*RST	Executes a device reset
*SRE 0~255	Sets or queries bits in the Service Request Enable register
*STB?	Reads Status Byte register
*TRG	Triggers analyzer
*TST?	Performs self test
*WAI	Wait-to-continue command

ABORt

ABORt

ARM

ARM[:IMMediate]

ARM:RPM:INCRement 1~500000[RPM]

ARM:RPM:MODE OFF|0|UP|DOWN

ARM:RPM:THReshold 5~491520[RPM]

ARM:SOURce IMMediate|MANual|RPM|TIMer

ARM:TIMer 0~500000[S]

CALCulate[1|2|3|4]

CALCulate[1|2|3|4]:ACTive A|B|C|D|AB|CD|ABCD

CALCulate[1|2|3|4]:CFIT:ABORt

CALCulate[1|2|3|4]:CFIT:COPY-? SYNThesis

CALCulate[1|2|3|4]:CFIT:DATA <BLOCK>

CALCulate[1|2|3|4]:CFIT:DESTination D1|D2|D3|D4|D5|D6|D7|D8

CALCulate[1|2|3|4]:CFIT:FREQuency[:AUTO] OFF|0|ON|1

CALCulate[1|2|3|4]:CFIT:FREQuency:STARt 0~115000[HZ]

CALCulate[1|2|3|4]:CFIT:FREQuency:STOP 0.390625~115000[HZ]

CALCulate[1|2|3|4]:CFIT:FSCale 1e-06~1e+06

CALCulate[1|2|3|4]:CFIT[:IMMediate]

CALCulate[1|2|3|4]:CFIT:ORDer:AUTO OFF|0|ON|1

CALCulate[1|2|3|4]:CFIT:ORDer:POLes 0~20

CALCulate[1|2|3|4]:CFIT:ORDer:ZERos 0~20

CALCulate[1|2|3|4]:CFIT:TDELay -100~100[S]

CALCulate[1|2|3|4]:CFIT:WEIGht:AUTO OFF|0|ON|1

CALCulate[1|2|3|4]:CFIT:WEIGht:REGister D1|D2|D3|D4|D5|D6|D7|D8

CALCulate[1|2|3|4]:DATA?

CALCulate[1|2|3|4]:DATA:HEADer:POINts?

CALCulate[1|2|3|4]:FEED <CMDSTR>

CALCulate[1|2|3|4]:FORMat MLINear|MLOGarithmic|PHASe|REAL|IMAGinary|
  NYQuist|UPHase|GDELay|POLar

CALCulate[1|2|3|4]:GDAPerture:APERture 0~20[PCT]

CALCulate[1|2|3|4]:LIMit:BEEP[:STATe] OFF|0|ON|1

CALCulate[1|2|3|4]:LIMit:FAIL?

CALCulate[1|2|3|4]:LIMit:LOWer:CLEar[:IMMediate]

CALCulate[1|2|3|4]:LIMit:LOWer:MOVE:Y-? -9.9e+37~9.9e+37

CALCulate[1|2|3|4]:LIMit:LOWer:REPort[:DATA]?

CALCulate[1|2|3|4]:LIMit:LOWer:REPort:YDATa?

CALCulate[1|2|3|4]:LIMit:LOWer:SEGMent <BLOCK>

CALCulate[1|2|3|4]:LIMit:LOWer:SEGMent:CLEar-? -9.9e+37~9.9e+37

CALCulate[1|2|3|4]:LIMit:LOWer:TRACe[:IMMediate]

CALCulate[1|2|3|4]:LIMit:STATe OFF|0|ON|1

CALCulate[1|2|3|4]:LIMit:UPPer:CLEar[:IMMediate]

CALCulate[1|2|3|4]:LIMit:UPPer:MOVE:Y-? -9.9e+37~9.9e+37

CALCulate[1|2|3|4]:LIMit:UPPer:REPort[:DATA]?

CALCulate[1|2|3|4]:LIMit:UPPer:REPort:YDATa?

CALCulate[1|2|3|4]:LIMit:UPPer:SEGMent <BLOCK>

CALCulate[1|2|3|4]:LIMit:UPPer:SEGMent:CLEar-? -9.9e+37~9.9e+37

CALCulate[1|2|3|4]:LIMit:UPPer:TRACe[:IMMediate]

CALCulate[1|2|3|4]:MARKer:BAND:STARt -9.9e+37~9.9e+37[HZ|S|ORD|
  COUNT|AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:MARKer:BAND:STOP -9.9e+37~9.9e+37[HZ|S|ORD|
  COUNT|AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:MARKer:COUPled[:STATe] OFF|0|ON|1

CALCulate[1|2|3|4]:MARKer:DTABle:CLEar[:IMMediate]

CALCulate[1|2|3|4]:MARKer:DTABle:COPY[1|2|3|4]

CALCulate[1|2|3|4]:MARKer:DTABle[:DATA]?

CALCulate[1|2|3|4]:MARKer:DTABle:X[:DATA]?

CALCulate[1|2|3|4]:MARKer:DTABle:X:DELete

CALCulate[1|2|3|4]:MARKer:DTABle:X:INSert -9.9e+37~9.9e+37[HZ|S|ORD|
  COUNT|AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:MARKer:DTABle:X:LABel '<STRING>'

CALCulate[1|2|3|4]:MARKer:DTABle:X:SELect[:POINt] 1~50

CALCulate[1|2|3|4]:MARKer:FUNCtion OFF|0|HPOWer|THD|BPOWer|BRMS|
  SPOWer|OVERshoot|RTIMe|STIMe|DTIMe|SSLevel|GMARgin|PMARgin|
  GCRossover|PCRossover|FREQuency|DAMPing|SINFo|WEIGht|TPOWer|
  WPOWer

CALCulate[1|2|3|4]:MARKer:FUNCtion:RESult?

CALCulate[1|2|3|4]:MARKer:HARMonic:COUNt 0~400

CALCulate[1|2|3|4]:MARKer:HARMonic:FUNDamental -9.9e+37~9.9e+37[HZ|
  ORD|CPM]

CALCulate[1|2|3|4]:MARKer:MAXimum[:GLOBal]

CALCulate[1|2|3|4]:MARKer:MAXimum[:GLOBal]:TRACk OFF|0|ON|1

CALCulate[1|2|3|4]:MARKer:MAXimum:LEFT

CALCulate[1|2|3|4]:MARKer:MAXimum:RIGHt

CALCulate[1|2|3|4]:MARKer:MODE ABSolute|RELative

CALCulate[1|2|3|4]:MARKer:POSition -9.9e+37~9.9e+37[HZ|S|
  ORD|COUNT|AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:MARKer:POSition:POINt 0~2047

CALCulate[1|2|3|4]:MARKer:REFerence:X -9.9e+37~9.9e+37[HZ|S|ORD|
  COUNT|AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:MARKer:REFerence:Y -9.9e+37~9.9e+37[DBVRMS|VPK|
  DBVPK|V|DBV|EU|DBEU|VRMS]

CALCulate[1|2|3|4]:MARKer:SIDeband:CARRier -9.9e+37~9.9e+37[HZ|ORD|
  CPM]

CALCulate[1|2|3|4]:MARKer:SIDeband:COUNt 0~200

CALCulate[1|2|3|4]:MARKer:SIDeband:INCRement -9.9e+37~9.9e+37[HZ|
  ORD|CPM]

CALCulate[1|2|3|4]:MARKer[:STATe] OFF|0|ON|1

CALCulate[1|2|3|4]:MARKer:X[:ABSolute] -9.9e+37~9.9e+37[HZ|S|ORD|
  COUNT|AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:MARKer:X:RELative -102400~102400[HZ|S|ORD|COUNT|
  AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:MARKer:Y[:ABSolute]?

CALCulate[1|2|3|4]:MARKer:Y:RELative -150~150

CALCulate[1|2|3|4]:MATH:CONStant[1|2|3|4|5] -9.9e+37~9.9e+37
  [,-9.9e+37~9.9e+37]

CALCulate[1|2|3|4]:MATH:DATA <USER>

CALCulate[1|2|3|4]:MATH[:EXPRession[1|2|3|4|5]] <EXPR>

CALCulate[1|2|3|4]:MATH:SELect F1|F2|F3|F4|F5

CALCulate[1|2|3|4]:MATH:STATe OFF|0|ON|1

CALCulate[1|2|3|4]:SYNThesis:COPY-? CFIT

CALCulate[1|2|3|4]:SYNThesis:DATA <BLOCK>

CALCulate[1|2|3|4]:SYNThesis:DESTination D1|D2|D3|D4|D5|D6|D7|D8

CALCulate[1|2|3|4]:SYNThesis:FSCale 1e-06~1e+06

CALCulate[1|2|3|4]:SYNThesis:GAIN -9.9e+37~9.9e+37

CALCulate[1|2|3|4]:SYNThesis[:IMMediate]

CALCulate[1|2|3|4]:SYNThesis:SPACing LINear|LOGarithmic

CALCulate[1|2|3|4]:SYNThesis:TDELay -100~100[S]

CALCulate[1|2|3|4]:SYNThesis:TTYPe PZERo|PFRaction|POLYnomial

CALCulate[1|2|3|4]:UNIT:AMPLitude PEAK|PP|RMS

CALCulate[1|2|3|4]:UNIT:ANGLe DEGRee|RADian

CALCulate[1|2|3|4]:UNIT:DBReference 'DBV'|'DBM'|'DBSPL'|'DBUSER146

CALCulate[1|2|3|4]:UNIT:DBReference:IMPedance 1e-15~1e+15[OHM]

CALCulate[1|2|3|4]:UNIT:DBReference:USER:LABel '<STRING>'

CALCulate[1|2|3|4]:UNIT:DBReference:USER:REFerence 1e-15~1e+15

CALCulate[1|2|3|4]:UNIT:MECHanical 'G'|'M/S2'|'M/S'|'M'|' INCH/S2'|'INCH/S'|
  'INCH'|'MILS'

CALCulate[1|2|3|4]:UNIT:VOLTage 'V'|'V2'|'V2/HZ'|'V2S/HZ'|@14 6V/RTHZ'

CALCulate[1|2|3|4]:UNIT:X 'HZ'|'CPM'|'ORD'|'USER'

CALCulate[1|2|3|4]:UNIT:X:ORDer:FACTor 1e-15~1e+15[HZ/ORD|RPM/ORD]

CALCulate[1|2|3|4]:UNIT:X:USER:FREQuency:FACTor 1e-15~1e+15

CALCulate[1|2|3|4]:UNIT:X:USER:FREQuency:LABel '<STRING>'

CALCulate[1|2|3|4]:UNIT:X:USER:TIME:FACTor 1e-15~1e+15

CALCulate[1|2|3|4]:UNIT:X:USER:TIME:LABel '<STRING>'

CALCulate[1|2|3|4]:WATerfall:COUNt 1~32767

CALCulate[1|2|3|4]:WATerfall[:DATA]?

CALCulate[1|2|3|4]:WATerfall:SLICe:COPY-? D1|D2|D3|D4|D5|D6|D7|D8

CALCulate[1|2|3|4]:WATerfall:SLICe:SELect -16382~1e+06[HZ|S|ORD|
  COUNT|AVG|V|VPK|RPM|EU|REV]

CALCulate[1|2|3|4]:WATerfall:SLICe:SELect:POINt 0~2048

CALCulate[1|2|3|4]:WATerfall:TRACe:COPY-? D1|D2|D3|D4|D5|D6|D7|D8

CALCulate[1|2|3|4]:WATerfall:TRACe:SELect -9.9e+37~9.9e+37[S|RPM|
  COUNT|AVG]

CALCulate[1|2|3|4]:WATerfall:TRACe:SELect:POINt 0~32767

CALCulate[1|2|3|4]:X:DATA?

CALibration

CALibration[:ALL]?

CALibration:AUTO OFF|0|ON|1|ONCE

DISPlay

DISPlay:ANNotation[:ALL] OFF|0|ON|1

DISPlay:BODE

DISPlay:BRIGhtness 0.5~1

DISPlay:ERRor-? '<STRING>'

DISPlay:EXTernal[:STATe] OFF|0|ON|1

DISPlay:FORMat SINGle|ULOWer|FBACk|SUBL|ULFB|QUAD

DISPlay:GPIB:ECHO OFF|0|ON|1

DISPlay:PROGram:KEY:BOX 0~9,OFF|0|ON|1

DISPlay:PROGram:KEY:BRACket 0~9,0~9,OFF|0|ON|1

DISPlay:PROGram[:MODE] OFF|0|FULL|UPPer|LOWer

DISPlay:PROGram:VECTor:BUFFer[:STATe] OFF|0|ON|1

DISPlay:RPM[:STATe] OFF|0|ON|1

DISPlay:STATe OFF|0|ON|1

DISPlay:TCAPture:ENVelope[:STATe] OFF|0|ON|1

DISPlay:VIEW TRACe|MSTate|MMEMory|STABle|CTABle|FTABle|TTABle|
MEMory|OPTion|CAPTure|ISTate|MESSage

DISPlay[:WINDow[1|2|3|4]]:DTABle:MARKer[:STATe] OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:DTABle[:STATe] OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:LIMit:STATe OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:POLar:CLOCkwise OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:POLar:ROTation -360~360

DISPlay[:WINDow[1|2|3|4]]:TRACe:APOWer[:STATe] OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:TRACe:BPOWer[:STATe] OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:TRACe:GRATicule:GRID[:STATe] OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:TRACe:LABel '<STRING>'

DISPlay[:WINDow[1|2|3|4]]:TRACe:LABel:DEFault[:STATe] OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:TRACe:X:MATCh[1|2|3|4]

DISPlay[:WINDow[1|2|3|4]]:TRACe:X[:SCALe]:AUTO OFF|0|ONCE

DISPlay[:WINDow[1|2|3|4]]:TRACe:X[:SCALe]:LEFT -9.9e+37~9.9e+37[HZ|S|
ORD|COUNT|AVG|V|VPK|RPM|EU|REV]

DISPlay[:WINDow[1|2|3|4]]:TRACe:X[:SCALe]:RIGHt -9.9e+37~9.9e+37[HZ|
S|ORD|COUNT|AVG|V|VPK|RPM|EU|REV]

DISPlay[:WINDow[1|2|3|4]]:TRACe:X:SPACing LINear|LOGarithmic

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y:MATCh[1|2|3|4]

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y[:SCALe]:AUTO OFF|0|ON|1|ONCE

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y[:SCALe]:BOTTom -9.9e+37~9.9e+37
[DBVRMS|VRMS|VPK|DBVPK|V|DBV|EU|DBEU]

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y[:SCALe]:CENTer -9.9e+37~9.9e+37
[DBVRMS|VRMS|VPK|DBVPK|V|DBV|EU|DBEU]

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y[:SCALe]:PDIVision 0~9.9e+37[DB|
VRMS|VPK|V]

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y[:SCALe]:REFerence TOP|CENTer|
BOTTom|RANGe

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y[:SCALe]:TOP -9.9e+37~9.9e+37
[DBVRMS|VRMS|VPK|DBVPK|V|DBV|EU|DBEU]

DISPlay[:WINDow[1|2|3|4]]:TRACe:Y:SPACing LINear|LOGarithmic

DISPlay[:WINDow[1|2|3|4]]:WATerfall:BASeline 0~100[PCT]

DISPlay[:WINDow[1|2|3|4]]:WATerfall:BOTTom 0~9.9e+37[S|RPM|COUNT|
AVG]

DISPlay[:WINDow[1|2|3|4]]:WATerfall:COUNt 1e-06~9.9e+37[S|RPM|COUNT|
AVG]

DISPlay[:WINDow[1|2|3|4]]:WATerfall:HEIGht 1~100[PCT]

DISPlay[:WINDow[1|2|3|4]]:WATerfall:HIDDen OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:WATerfall:SKEW OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:WATerfall:SKEW:ANGLe 0~45

DISPlay[:WINDow[1|2|3|4]]:WATerfall[:STATe] OFF|0|ON|1

DISPlay[:WINDow[1|2|3|4]]:WATerfall:TOP 0~9.9e+37[S|RPM|COUNT|AVG]

FORMat
FORMat[:DATA] ASCii|REAL[,3~64]

HCOPy
HCOPy:COLor:DEFault

HCOPy:DESTination 'SYSTem:COMMunicate:GPIB:RDEVice'|'MMEMory 46|
'SYSTem:COMMunicate:CENTronics'|'SYSTem:COMMuni cate:SERial'

HCOPy:DEVice:LANGuage HPGL|PCL|PHPGl

HCOPy:DEVice:SPEed 0~100

HCOPy[:IMMediate]

HCOPy:ITEM:ALL[:IMMediate]

HCOPy:ITEM:FFEed:STATe OFF|0|ON|1

HCOPy:ITEM:LABel:COLor 0~16

HCOPy:ITEM:LABel:STATe OFF|0|ON|1

HCOPy:ITEM:LABel:TEXT '<STRING>'

HCOPy:ITEM:TDSTamp:FORMat FORMat1|FORMat2|FORMat3|FORMat4|
FORMat5

HCOPy:ITEM:TDSTamp:STATe OFF|0|ON|1

HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:COLor 0~16

HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:GRATicule:COLor 0~16

HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:GRATicule[:IMMediate]

HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe[:IMMediate]

HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:LIMit:LTYPe SOLid|DASHed|DOTTed|
  STYLe<n>
HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:LTYPe SOLid|DASHed|DOTTed|
  STYLe<n>
HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:MARKer:COLor 0~16
HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:MARKer[:IMMediate]
HCOPy:ITEM[:WINDow[1|2|3|4]]:TRACe:MARKer:REFerence[:IMMediate]
HCOPy:PAGE:DIMensions:AUTO OFF|0|ON|1
HCOPy:PAGE:DIMensions:USER:LLEFt -32767~32767,-32767~32767
HCOPy:PAGE:DIMensions:USER:URIGht -32767~32767,-32767~32767
HCOPy:PLOT:ADDRess 0~30
HCOPy:PRINt:ADDRess 0~30
HCOPy:TITLe[1|2] '<STRING>'

INITiate
INITiate:CONTinuous OFF|0|ON|1
INITiate[:IMMediate]

INPut[1|2|3|4]
INPut[1|2|3|4]:BIAS[:STATe] OFF|0|ON|1
INPut[1|2|3|4]:COUPling AC|DC
INPut[1|2|3|4]:FILTer:AWEighting[:STATe] OFF|0|ON|1
INPut[1|2|3|4]:FILTer[:LPASs][:STATe] OFF|0|ON|1
INPut[1|2|3|4]:LOW GROund|FLOat
INPut[1|2|3|4]:REFerence:DIRection 0~32767
INPut[1|2|3|4]:REFerence:POINt 0~32767
INPut[1|2|3|4][:STATe] OFF|0|ON|1

INSTrument
INSTrument:NSELect 0~5
INSTrument[:SELect] FFT|OCTave|ORDer|SINE|HISTogram|CORRelation

MEMory
MEMory:CATalog[:ALL]?
MEMory:CATalog:NAME? TCAPture|WATerfall|WREGister|PROGram|RDISk
MEMory:DELete:ALL
MEMory:DELete[:NAME]-? TCAPture|WATerfall|WREGister|PROGram|RDISk
MEMory:FREE[:ALL]?

MMEMory

MMEMory:COPY-? <MMEMNAME>,<MMEMNAME>

MMEMory:DELete-? <MMEMNAME>

MMEMory:DISK:ADDRess 0~30

MMEMory:DISK:UNIT 0~10

MMEMory:FSYStem?

MMEMory:INITialize-? [<MSINAME>][,LIF|DOS][,0~7.00006e+06][,0~256]

MMEMory:LOAD:CFIT-? <FILENAME>

MMEMory:LOAD:CONTinue

MMEMory:LOAD:CONTinue?

MMEMory:LOAD:DTABle:TRACe[1|2|3|4]-? <FILENAME>

MMEMory:LOAD:LIMit:LOWer:TRACe[1|2|3|4]-? <FILENAME>

MMEMory:LOAD:LIMit:UPPer:TRACe[1|2|3|4]-? <FILENAME>

MMEMory:LOAD:MATH-? <FILENAME>

MMEMory:LOAD:PROGram-? <FILENAME>

MMEMory:LOAD:STATe-? 1~1,<FILENAME>

MMEMory:LOAD:SYNThesis-? <FILENAME>

MMEMory:LOAD:TCAPture-? <FILENAME>

MMEM:LOAD:TRACe-? D1|D2|D3|D4|D5|D6|D7|D8,<FILENAME>[,NOSCale]

MMEMory:LOAD:WATerfall-? W1|W2|W3|W4|W5|W6|W7|W8,<FILENAME>

MMEMory:MDIRectory-? '<\DIR_NAME\>'

MMEMory:MOVE-? <FILENAME>, <FILE>

MMEMory:MSIS <MSINAME>

MMEMory:NAME '<FILENAME>'

MMEMory:STORe:CFIT-? <FILENAME>

MMEMory:STORe:CONTinue

MMEMory:STORe:CONTinue?

MMEMory:STORe:DTABle:TRACe[1|2|3|4]-? <FILENAME>

MMEMory:STORe:LIMit:LOWer:TRACe[1|2|3|4]-? <FILENAME>

MMEMory:STORe:LIMit:UPPer:TRACe[1|2|3|4]-? <FILENAME>

MMEMory:STORe:MATH-? <FILENAME>

MMEMory:STORe:PROGram-? <FILENAME>

MMEMory:STORe:PROGram:FORMat ASCii|BINary

MMEMory:STORe:STATe-? 1~1,<FILENAME>

MMEMory:STORe:SYNThesis-? <FILENAME>

MMEMory:STORe:TCAPture-? <FILENAME>

MMEMory:STORe:TRACe-? TRACe1|TRACe2|TRACe3|TRACe4,<FILENAME>

MMEMory:STOR:WATerfall-? TRACe1|TRACe2|TRACe3|TRACe4,<FILENAME>

OUTPut

OUTPut:FILTer[:LPASs][:STATe] OFF|0|ON|1

OUTPut[:STATe] OFF|0|ON|1

PROGram

PROGram:EDIT:ENABle OFF|0|ON|1

PROGram:EXPLicit:DEFine
PROGram1|PROGram2|PROGram3|PROGram4|PROGram5,<PROGRAM>

PROGram:EXPLicit:LABel PROGram1|PROGram2|PROGram3|PROGram4|
  PROGram5,'<STRING>'

PROGram[:SELected]:DEFine <PROGRAM>

PROGram[:SELected]:DELete:ALL

PROGram[:SELected]:DELete[:SELected]

PROGram[:SELected]:LABel '<STRING>'

PROGram[:SELected]:MALLocate 1200~500000

PROGram[:SELected]:NAME PROGram1|PROGram2|PROGram3|PROGram4|
  PROGram5

PROGram[:SELected]:NUMBer '<NVARNAME>',<BLOCK>

PROGram[:SELected]:STATe STOP|PAUSe|RUN|CONTinue

PROGram[:SELected]:STRing '<SVARNAME>','<STRING>'

[SENSe:]

[SENSe:]AVERage:CONFidence 0.25~2[DB]

[SENSe:]AVERage:COUNt 1~1e+07

[SENSe:]AVERage:HOLD OFF|0|MAXimum|MINimum

[SENSe:]AVERage:IMPulse OFF|0|ON|1

[SENSe:]AVERage:IRESult:RATE 1~1e+07

[SENSe:]AVERage:IRESult[:STATe] OFF|0|ON|1

[SENSe:]AVERage:PREView OFF|0|MANual|TIMed

[SENSe:]AVERage:PREView:ACCept

[SENSe:]AVERage:PREView:REJect

[SENSe:]AVERage:PREView:TIME 0.1~3600[S]

[SENSe:]AVERage[:STATe] OFF|0|ON|1

[SENSe:]AVERage:TCONtrol FREeze|REPeat|EXPonential

[SENSe:]AVERage:TIME 0~9.9e+37[S|REC|PNT]

[SENSe:]AVERage:TYPE MAXimum|RMS|TIME|VECTor|ECONfidence

[SENSe:]FEED INPut|TCAPture

[SENSe:]FREQuency:BLOCksize 256~2048

[SENSe:]FREQuency:CENTer 0.0234375~115000[HZ|CPM]

[SENSe:]FREQuency:MANual 0.015625~51200[HZ]

[SENSe:]FREQuency:RESolution 0.015625~51200[HZ|PCT|PNT/SWP|
  PNT/DEC|PNT/OCT]

[SENSe:]FREQuency:RESolution:AUTO OFF|0|ON|1

[SENSe:]FREQuency:RESolution:AUTO:MCHange 0.00391~100[PCT]

[SENSe:]FREQuency:RESolution:AUTO:MINimum 0.015625~51200[HZ|PCT|
  PNT/SWP|PNT/DEC|PNT/OCT]

[SENSe:]FREQuency:RESolution:OCTave THIRd|FULL|TWELfth

[SENSe:]FREQuency:SPAN 0.015625~102400[HZ|CPM]

[SENSe:]FREQuency:SPAN:FULL

[SENSe:]FREQuency:SPAN:LINK STARt|CENTer

[SENSe:]FREQuency:STARt 0~115000[HZ|CPM]

[SENSe:]FREQuency:STEP[:INCRement] 0.015625~102400[HZ|CPM]

[SENSe:]FREQuency:STOP 0.03125~115000[HZ|CPM]

[SENSe:]HISTogram:BINS 4~1024

[SENSe:]ORDer:MAXimum 3.125~200[ORD]

[SENSe:]ORDer:RESolution 0.0078125~1[ORD]

[SENSe:]ORDer:RESolution:TRACk 1~2048

[SENSe:]ORDer:RPM:MAXimum 0~9.9e+37[RPM]

[SENSe:]ORDer:RPM:MINimum 0~9.9e+37[RPM]

[SENSe:]ORDer:TRACk[1|2|3|4|5] 0~9.9e+37[ORD]

[SENSe:]ORDer:TRACk[1|2|3|4|5]:STATe OFF|0|ON|1

[SENSe:]REFerence SINGle|PAIR

[SENSe:]REJect:STATe OFF|0|ON|1

[SENSe:]SWEep:DIRection UP|DOWN

[SENSe:]SWEep:DWELl 0.00025~32768[S|CYCLE]

[SENSe:]SWEep:MODE AUTO|MANual

[SENSe:]SWEep:OVERlap 0~99[PCT]

[SENSe:]SWEep:SPACing LINear|LOGarithmic

[SENSe:]SWEep:STIMe 0~9.9e+37[S|CYCLE]

[SENSe:]SWEep:TIME 0.000976562~8192[S]

[SENSe:]TCAPture:ABORt

[SENSe:]TCAPture:DELete

[SENSe:]TCAPture[:IMMediate]

[SENSe:]TCAPture:LENGth 0~9.9e+37[S|BLK|PNT]

[SENSe:]TCAPture:MALLocate

[SENSe:]TCAPture:STARt[1|2|3|4] -9.9e+37~9.9e+37[S|BLK|PNT]

[SENSe:]TCAPture:STOP[1|2|3|4] -9.9e+37~9.9e+37[S|BLK|PNT]

[SENSe:]TCAPture:TACHometer:RPM:MAXimum 5~491519

[SENSe:]TCAPture:TACHometer[:STATe] OFF|0|ON|1

[SENSe:]VOLTage[1|2|3|4][:DC]:RANGe:AUTO OFF|0|ON|1

[SENSe:]VOLTage[1|2|3|4][:DC]:RANGe:AUTO:DIRection UP|EITHer

[SENSe:]VOLTage[1|2|3|4][:DC]:RANGe:UNIT:USER:LABel '<STRING>'

[SENS:]VOLT[1|2|3|4][:DC]:RANGe:UNIT:USER:SFACtor -9.9e+37~9.9e+37
  [V/EU|EU/V]

[SENSe:]VOLTage[1|2|3|4][:DC]:RANGe:UNIT:USER[:STATe] OFF|0|ON|1

[SENSe:]VOLTage[1|2|3|4][:DC]:RANGe:UNIT:XDCR:LABel PA|G|M/S2|M/S|
  M|KG|N|DYN|INCH/S2|INCH/S|INCH|MIL|LB|USER

[SENSe:]VOLTage[1|2|3|4][:DC]:RANGe[:UPPer] -51~31.66[DBVRMS|VPK
  |DBVPK|V|DBV|EU|DBEU|VRMS]

[SENSe:]WINDow[1|2|3|4]:EXPonential 3.8147e-06~9.9999e+06[S]

[SENSe:]WINDow[1|2|3|4]:FORCe 3.8147e-06~9.9999e+06[S]

[SENSe:]WINDow[1|2|3|4]:ORDer:DC OFF|0|ON|1

[SENSe:]WINDow[1|2|3|4][:TYPE] HANNing|FLATtop|UNIForm|FORCe|
  EXPonential|LAG|LLAG

SOURce

SOURce:BURSt 0~100[PCT]

SOURce:FREQuency[:CW] 0~115000[HZ]

SOURce:FREQuency:FIXed 0~115000[HZ]

SOURce:FUNCtion[:SHAPe] SINusoid|RANDom|BRANdom|PCHirp|BCHirp|
  PINK|USER|CAPT

SOURce:USER:CAPTure 1~4

SOURce:USER[:REGister] D1|D2|D3|D4|D5|D6|D7|D8

SOURce:USER:REPeat OFF|0|ON|1

SOURce:VOLTage[:LEVel]:AUTO OFF|0|ON|1

SOUR:VOLT[:LEVel][:IMMediate][:AMPLitude] -9.9e+37~13.9794[DBVRMS|
  VPK|DBVPK|V|DBV|VRMS]

SOURce:VOLTage[:LEVel][:IMMediate]:OFFSet -10~10[V]

SOURce:VOLTage[:LEVel]:REFerence -69.276~31.66[DBVRMS|VPK|DBVPK|V|
  DBV|EU|DBEU|VRMS]

SOURce:VOLTage[:LEVel]:REFerence:CHANnel INPut1|INPut2|INPut3|INPut4

SOURce:VOLTage[:LEVel]:REFerence:TOLerance 0.1~20[DB]

SOURce:VOLTage:LIMit[:AMPLitude] -9.9e+37~13.9794[DBVRMS|VPK|
  DBVPK|V|DBV|VRMS]

SOURce:VOLTage:LIMit:INPut -69.276~31.66[DBVRMS|VPK|DBVPK|V|
  DBV|EU|DBEU|VRMS]

SOURce:VOLTage:SLEW 0~10000[V/S|VPK/S|VRMS/S]

STATus

STATus:DEVice:CONDition?

STATus:DEVice:ENABle 0~32767

STATus:DEVice[:EVENt]?

STATus:DEVice:NTRansition 0~32767

STATus:DEVice:PTRansition 0~32767

STATus:OPERation:CONDition?

STATus:OPERation:ENABle 0~32767

STATus:OPERation[:EVENt]?

STATus:OPERation:NTRansition 0~32767

STATus:OPERation:PTRansition 0~32767

STATus:PRESet

STATus:QUEStionable:CONDition?

STATus:QUEStionable:ENABle 0~32767

STATus:QUEStionable[:EVENt]?

STATus:QUEStionable:LIMit:CONDition?

STATus:QUEStionable:LIMit:ENABle 0~32767

STATus:QUEStionable:LIMit[:EVENt]?

STATus:QUEStionable:LIMit:NTRansition 0~32767

STATus:QUEStionable:LIMit:PTRansition 0~32767

STATus:QUEStionable:NTRansition 0~32767

STATus:QUEStionable:PTRansition 0~32767

STATus:QUEStionable:VOLTage:CONDition?

STATus:QUEStionable:VOLTage:ENABle 0~32767

STATus:QUEStionable:VOLTage[:EVENt]?

STATus:QUEStionable:VOLTage:NTRansition 0~32767

STATus:QUEStionable:VOLTage:PTRansition 0~32767

STATus:USER:ENABle 0~32767

STATus:USER[:EVENt]?

STATus:USER:PULSe-? 0~32767

SYSTem

SYSTem:BEEPer[:IMMediate]-? [25~14880][,0~60][,0~1]

SYSTem:BEEPer:STATe OFF|0|ON|1

SYSTem:COMMunicate:GPIB[:SELF]:ADDRess 0~30

SYSTem:COMMunicate:SERial[:RECeive]:BAUD 300~9600

SYSTem:COMMunicate:SERial[:RECeive]:BITS 5~8

SYSTem:COMMunicate:SERial[:RECeive]:PACE NONE|XON

SYSTem:COMMunicate:SERial[:RECeive]:PARity:CHECk OFF|0|ON|1

SYSTem:COMMunicate:SERial[:RECeive]:PARity[:TYPE] NONE|EVEN|ODD

SYSTem:COMMunicate:SERial[:RECeive]:SBITs 1~2

SYSTem:COMMunicate:SERial:TRANsmit:PACE NONE|XON|DSR

SYSTem:DATE 0~9999,1~12,1~31

SYSTem:ERRor?

SYSTem:FAN[:STATe] OFF|0|FULL|AUTO

SYSTem:FLOG:CLEar

SYSTem:KEY 0~255

SYSTem:KLOCk OFF|0|ON|1

SYSTem:POWer:SOURce? AC|DC

SYSTem:POWer:STATe OFF|0|ON|1

SYSTem:PRESet

SYSTem:SET <STATE>

SYSTem:TIME 0~23,0~59,0~60

SYSTem:VERSion?

TEST

TEST:LOG:CLEar

TEST:LONG

TEST:LONG:RESult?

TRACe

TRACe[:DATA] D1|D2|D3|D4|D5|D6|D7|D8,<DATA>

TRACe:WATerfall[:DATA] W1|W2|W3|W4|W5|W6|W7|W8,<WDATA>

TRACe:X[:DATA]? TRACe1|TRACe2|TRACe3|TRACe4|D1|D2|D3|D4|D5|D6|
D7|D8|W1|W2|W3|W4|W5|W6|W7|W8

TRACe:X:UNIT? TRACe1|TRACe2|TRACe3|TRACe4|D1|D2|D3|D4|D5|D6|D7|
D8|W1|W2|W3|W4|W5|W6|W7|W8

TRACe:Z[:DATA]? TRACe1|TRACe2|TRACe3|TRACe4|D1|D2|D3|D4|D5|D6|
D7|D8|W1|W2|W3|W4|W5|W6|W7|W8

TRACe:Z:UNIT? TRACe1|TRACe2|TRACe3|TRACe4|D1|D2|D3|D4|D5|D6|D7|
D8|W1|W2|W3|W4|W5|W6|W7|W8

TRIGger

TRIGger:EXTernal:FILTer[:LPAS][:STATe] OFF|0|ON|1

TRIGger:EXTernal:LEVel -10~10[V]

TRIGger:EXTernal:RANGe HIGH|LOW

TRIGger[:IMMediate]

TRIGger:LEVel -9.9e+37~9.9e+37[PCT|V|VPK|EU]

TRIGger:LEVel:TTL HIGH|LOW

TRIGger:SLOPe POSitive|NEGative

TRIGger:SOURce IMMediate|EXTernal|INTernal1|INTernal2|INTernal3|
INTernal4|OUTPut|BUS

TRIGger:STARt[1|2|3|4] -9.9e+37~9.9e+37[S]

TRIGger:TACHometer:HOLDoff 0~0.052224[S]

TRIGger:TACHometer:LEVel -20~20[V]

TRIGger:TACHometer:PCOunt 0.5~2048

TRIGger:TACHometer:RANGe HIGH|LOW

TRIGger:TACHometer[:RPM]?

TRIGger:TACHometer:SLOPe POSitive|NEGative