UPV Remote Control Commands V2.3.0.409, 30.04.2008

Differences between firmware version V2.1.0.260 and V2.3.0.409 are printed in **red** and marked with (**new**).

Blue comments are specials relating to queries.

Subsys<i> is a replacement for the graphical subsystems SWEep, FFT, WAVeform, BARgraph, PESQ

SWEep<i>: i = 1 to 4
FFT<i>: i = 1 or 2
WAVeform<i>: i = 1
BARgraph<i>: i = 1 or 2
PESQ<i>: i = 1 or 2

List of Remote Control Commands arranged in groups

Group	Command-Mnemonic
Adjust	ADJust:JITTer:AUTO Alias CALibrate:JITTer:AUTO ONCE Query answer is always OFF
Adjust	ADJust:LDG:AUTO Alias CALibrate:LDG:AUTO ONCE Query answer is always OFF
Adjust	ADJust:SECGen:AUTO ONCE Query answer is always OFF
Adjust	ADJust:ZERO:AUTO Alias CALibrate:ZERO:AUTO OFF ON ONCE
Adjust	DIAGnostic:ADJustment

	Alias DIAGnostic:CALibration ALDG | CLDG AAGEn | CAGEn AANLr0 | CANLr0 ADPHase | CDPHase B48Primary (new) B48Secondary (new)
Adjust	DIAGnostic:CALibration:ADDRess <n> Alias DIAGnostic:ADJustment:ADDRess <n>
Adjust	DIAGnostic:CALibration:FDATa <n> Alias DIAGnostic:ADJustment:FDATa <n>
Anl Config	INPut:BANDwidth:MODE B22 B40 B80 B250
Anl Config	INPut:CHANnel Alias INPut:SELect CH1 CH2 CH1And2 CH1Is2 CH2Is1 BOTH
Anl Config	INPut:COUPling AC DC
Anl Config	INPut:FILTer OFF UFIL1 … UFIL9 AWE CARM CCIU CCIR CCIT CMES DCN DEMP17 DEMP5015 DEMP50

	DEMP75 IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50 PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE
Anl Config	INPut:FORMat SI2S USERdefined
Anl Config	INPut:FSLope LFTFalling LFTRising
Anl Config	INPut:INPut INTern DSUB
Anl Config	INPut:SAMPle:FREQuency <nu>
Anl Config	INPut:SAMPle:FREQuency:MODE Parameter for Analyzer-Instrument Digital Audio: F32 F44 F48 F88 F96 F176 F192 VALue AUTO | AUTo CHSTatus INPut:SAMPle:FREQuency:MODe Parameter for Analyzer-Instrument I2S Board: F08 F11 F16

	F22 F32 F44 F48 F88 F96 F176 F192 F384 VALue AUTO | AUTo
Anl Config	INPut:WLENgth Alias INPut:WORDlength W16 W24 W32
Anl Config	INPut:WOFFset <n> Alias INPut:WRDOffset <n>
Anl Config	INPut[1]:COMMon Alias INPut[1]:LOW FLOat GROund
Anl Config	INPut[1]:IMPedance R300 R600 R200K
Anl Config	INPut[1]:TYPE Parameter for Analyzer-Instrument Analog BALanced GEN1 GEN2 Parameter for Analyzer-Instrument Digital Audio AESebu SPDif OPTical INTern
Anl Config	INPut2:COMMon Alias

	INPut2:LOW FLOat GROund
Anl Config	INPut2:IMPedance R300 R600 R200K
Anl Config	INPut2:TYPE BALanced GEN1 GEN2
Anl Config	INSTrument2[:SELect] ANLG | A22 DIG | D48 I2Sboard | I2S A8Channel (new) A16Channel (new) Alias INSTrument2:NSELect 1 | 2 | 3 | 4 1 = Analog 2 or 3 = Dig Audio 4 = I2S Board 8 = A8CHannel 9 = A16CHannel
Anl Config	SENSe[1]:DIGital:JITTer:REFerence Alias SENSe[1]:DIGital:REFerence INTClock | GCLock REFPll | PLLVari
Anl Config	SENSe[1]:DMODe Alias SENSe[1]:FEED Alias SENSe[1]:DIGital:FEED Alias SENSe[1]:DIGital:MMODe ADATa JPHase CINPut
Anl Config	SENSe[1]:POWer:REFerence:[MODE:]RESistance <nu>

Anl Config	SENSe[1]:REFerence:MODE CH1Store CH2Store CH1Meas CH2Meas STORe GENTrack VALue Multichannel: (new) VALue MREFchannel GENTrack CH1Store CH2Store CH3Store[1,2] CH4Store[1,2] CH5Store[1,2] CH6Store[1,2] CH7Store[1,2] CH8Store[1,2] CH9Store[2] CH10Store[2] CH11Store[2] CH12Store[2] CH13Store[2] CH14Store[2] CH15Store[2] CH16Store[2] CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.
Anl Config	SENSe[1]:REFerence:MODE2 CH1Store CH2Store CH1Meas CH2Meas STORe GENTrack VALue CH1Store, CH2Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.
Anl Config	SENSe[1]:REFerence[1] <nu>
Anl Config	SENSe[1]:REFerence2 <nu>
Anl Config	SENSe[1]:VOLTage:RANGe<i>:MODE AUTO

	FIX LOWER Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... $8^1/16^2$ The following aliases are only used for dual channel measurement. Alias SENSe[1]:VOLTage:RANGe[1]:AUTO SENSe[1]:VOLTage:RANGe2:AUTO ON OFF ON is like SENSe[1]:VOLTage:RANGe[1]:MODE AUTO OFF is like SENSe[1]:VOLTage:RANGe[1]:MODE FIX
Anl Config	SENSe[1]:VOLTage:RANGe<i>:VALue <nu> Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... $8^1/16^2$ The following aliases are only used for dual channel measurement. Alias SENSe[1]:VOLTage:RANGe[1] <nu> SENSe[1]:VOLTage:RANGe2 <nu> Alias SENSe[1]:VOLTage:RANGe[1]:UPPer <nu> SENSe[1]:VOLTage:RANGe2:UPPer <nu> Alias SENSe[1]:VOLTage:RANGe[1]:LOWer <nu> SENSe[1]:VOLTage:RANGe2:LOWer <nu> Queryform: SENSe[1]:VOLTage:RANGe<i>:VALue? ~~The query answer is the related range:~~ (new) The query answer is the nominal value of the range in volt without unit:

	Dual channel: 18MV: ~~"<0.0 ... 0.01979V>"~~ 0.018 30mV: ~~"<0.0198 ... 0.03299V>"~~ 0.03 60mV: ~~"<0.033 ... 0.06599V>"~~ 0.06 100mV: ~~"<0.066 ... 0.10999V>"~~ 0.1 180mV: ~~"<0.11 ... 0.19799V>"~~ 0.18 300mV: ~~"<0.198 ... 0.32999V>"~~ 0.3 600mV: ~~"<0.33 ... 0.65999V>"~~ 0.6 1000mV: ~~"<0.66 ... 1.09999V>"~~ 1 1800mV: ~~"<1.1 ... 1.97999V>"~~ 1.8 3V: ~~"<1.98 ... 3.29999V>"~~ 3 6V: ~~"<3.3 ... 6.59999V>"~~ 6 10V: ~~"<6.6 ... 10.9999V>"~~ 10 18V: ~~"<11.0 ... 19.7999V>"~~ 18 30V: ~~"<19.8 ... 32.9999V>"~~ 30 60V: ~~"<33.0 ... 65.9999V>"~~ 60 100V: ~~"<66.0 ... 110.0 V>"~~ 100 **Multichannel** (new) 200mV: ~~"<0.00 ... 0.21999V>"~~ 0.2 800mV: ~~"<0.22 ... 0.87999V>"~~ 0.8 3V: ~~"<0.88 ... 3.29999V>"~~ 3 12V: ~~"<3.3 ... 13.19999V>"~~ 12 50V: ~~"<13.2 ... 55.00V>"~~ 50 ~~The UPV did not understand these query answers as commands.~~
Anl Config	SENSe2:DATA<i>? Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... $8^1/16^2$
Anl Config	SENSe2:FUNCtion OFF IPEAk | IPEAK PHASetoref DIGinpampl
Anl Config	SENSe2:REFerence <nu>
Anl Config	SENSe2:REFerence:MODE CH1Store CH2Store STORe

	CH1Meas CH2Meas GENTrack DIGoutampl VALue Multichannel: VALue MREFchannel (new) GENTrack CH1Store CH2Store CH3Store[1,2] CH4Store[1,2] CH5Store[1,2] CH6Store[1,2] CH7Store[1,2] CH8Store[1,2] CH9Store[2] CH10Store[2] CH11Store[2] CH12Store[2] CH13Store[2] CH14Store[2] CH15Store[2] CH16Store[2] CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.
Anl Config	SENSe2:UNAuto[1] ON OFF
Anl Config	SENSe2:UNAuto2 ON OFF
Anl Config	SENSe2:UNIT[1] BITS DBFS DBM DBR DBU DBUI DBV DEGFRM DPCT DPCTV DPCTW DV

	DW FS LSBS NS PCTFRM PCTFS PCTPPR PCTUI PCTVVR PPMUI PPR UI UIR UIS V VVR W
Anl Config	SENSe2:UNIT2 V DBV DBR FS :
Anl Config	SENSe2:USERunit[1] 'Unitstring'
Anl Config	SENSe2:USERunit2 'Unitstring'
Anl Config	SENSe3:DATA<i>? Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... $8^1/16^2$
Anl Config	SENSe3:FREQuency:APERture:MODE FAST PRECision
Anl Config	SENSe3:FREQuency:REFerence <nu>
Anl Config	SENSe3:FREQuency:REFerence:MODE CH1Store CH2Store CH1Meas CH2Meas STORe

	GENTrack VALue Multichannel: SENSe3:REFerence:MODE[1] VALue MREFchannel (new) GENTrack CH1Store CH2Store CH3Store[1,2] CH4Store[1,2] CH5Store[1,2] CH6Store[1,2] CH7Store[1,2] CH8Store[1,2] CH9Store[2] CH10Store[2] CH11Store[2] CH12Store[2] CH13Store[2] CH14Store[2] CH15Store[2] CH16Store[2] CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.
Anl Config	SENSe3:FREQuency:UNAuto[1] ON OFF
Anl Config	SENSe3:FREQuency:UNAuto2 ON OFF
Anl Config	SENSe3:FREQuency:UNIT[1] HZ DHZ DPCTHZ TERZ OCT DEC FFR
Anl Config	SENSe3:FREQuency:UNIT2 HZ DHZ DPCTHZ TERZ

	OCT DEC FFR
Anl Config	SENSe3:FREquency:USERunit[1] 'Unitstring'
Anl Config	SENSe3:FREquency:USERunit2 'Unitstring'
Anl Config	SENSe3:FUNCtion OFF FREQuency FQPHase FQGRoupdelay FQSamplefrequency SFRequency
Anl Config	SENSe3:GROupdelay:REFerence <nu> = 0 … 10 s
Anl Config	SENSe3:PHASe:FORMat POSitive POSNegative NEGative RAD RADBipolar RADNegative INFinite
Anl Config	SENSe3:PHASe:REFerence <nu> -360° ...+360° -6.32832 … +6.32832 RAD
Anl Config	SENSe3:PHASe:REFerence:MODE STORe VALue GENTrack (new) Multichannel: (new) VALue GENTrack STORe is an action, the internal state is VALue, so the query answer is always VALue.
Anl Config	SENSe3:PHASe:UNAuto ON OFF

Anl Config	SENSe3:PHASe:UNIT DEG RAD DDEG DRAD S DS
Anl Config	SENSe3:PHASe:USERunit 'Unitstring'
Anl Config	SENSe4:DATA?
Anl Config	SENSe5:FUNCtion OFF ON
Anl Config	SENSe6:DATA<i>? Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... 8[1]/16[2]
Anl Config	SENSe6:FUNCtion OFF LRMS DC PEAK
Anl Config	SENSe6:REFerence <nu>
Anl Config	SENSe6:REFerence:MODE CH1Store CH2Store STORe CH1Meas CH2Meas GENTrack VALue Multichannel: VALue MREFchannel (new) GENTrack CH1Store CH2Store CH3Store[1,2] CH4Store[1,2]

	CH5Store[1,2] CH6Store[1,2] CH7Store[1,2] CH8Store[1,2] CH9Store[2] CH10Store[2] CH11Store[2] CH12Store[2] CH13Store[2] CH14Store[2] CH15Store[2] CH16Store[2] CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.
Anl Config	SENSe6:UNAuto[1] ON OFF
Anl Config	SENSe6:UNAuto2 ON OFF
Anl Config	SENSe6:UNIT[1]
Anl Config	SENSe6:UNIT2
Anl Config	SENSe6:USERunit[1] 'Unitstring'
Anl Config	SENSe6:USERunit2 'Unitstring'
Anl Config	SENSe7:CMPFactor <n> Alias SENSe7:COMPression <n> Alias SENSe7:WAVeform:COMPression <n>
Anl Config	SENSe7:FUNCtion OFF ON
Anl Config	SENSe7:INTerpol N1 N2 N4 N8

	N16 N32
Anl Config	SENSe7:MMODe STANdard COMPressed USAMple
Anl Config	SENSe7:TRIGger:AUTO Alias SENSe7:TRIGger:AUTo ON OFF
Anl Config	SENSe7:TRIGger:LEVel <nu>
Anl Config	SENSe7:TRIGger:PRE <nu>
Anl Config	SENSe7:TRIGger:SLOPe RISing FALLing
Anl Config	SENSe7:TRIGger:SOURce CH1 CH2 MANual GENBurst
Anl Config	SENSe7:TRIGger:TRCLength <nu>
Anl Config (new)	INPut:COUPling:CHANnels TRACk SPLit
Anl Config (new)	INPut:MCHannel<i> ON OFF Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... 8^1/16^2
Anl Config (new)	INPut:RANGe:CHANnels TRACk SPLit
Anl Config	INPut<i>:COUPling

(new)	AC DC Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... $8^1/16^2$
Anl Config (new)	TRIGger:SOURce AUTO | AUTo | IMMediate TIMer TCHart CH1Freq CH2Freq CH1Rapidfreq CH2Rapidfreq CH1Level CH2Level CH1Trigger CH2Trigger CH1Edgetrigger CH2Edgetrigger Multichannel: TRIGger:SOURce AUTO TIMer FREQuency RAPidfreq LEVel TRIGger EDGetrigger
Anl Funct	MMEMory:LOAD:FREQuency: SLCFrequency 'filename'
Anl Funct	MMEMory:LOAD:IEQualize ’filename’
Anl Funct	Query only SENSe[1]:FUNCtion:RECord:FLENgth?
Anl Funct	Query only SENSe[1]:FUNCtion:FFT:MTIMe?
Anl Funct	Query only SENSe[1]:FUNCtion:FFT:RESolution?
Anl Funct	Query only

	SENSe[1]:FUNCtion:FFT:STOP?
Anl Funct	Query only SENSe[1]:FUNCtion:FFT:STARt?
Anl Funct	SENSe:BANDwidth <nu>
Anl Funct	SENSe:FREQuency:SQRSin DIMA DIMB
Anl Funct	SENSe[1]:BANDwidth:MODE PPCT1 PPCT3 POCT12 PTOC PFAS PFIX SPCT1 SPCT3 SOCT12 STOC SFAS SFIX
Anl Funct	SENSe[1]:CHANnel:DELay <nu>
Anl Funct	SENSe[1]:DATA<i>? Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... 8^1/16^2
Anl Funct	SENSe[1]:FILTer<i> OFF UFIL1 UFIL2 UFIL3 UFIL4 UFIL5 UFIL6 UFIL7 UFIL8 UFIL9 AWE CARM CCIU

	CCIR CCIT CMES DEMP17 DEMP5015 DEMP50 DEMP75 DCN IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50 PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE <i> = 1, 2 or 3
Anl Funct	SENSe[1]:FREQuency <nu>
Anl Funct	SENSe[1]:FREQuency:FACTor <nu>
Anl Funct	SENSe[1]:FREQuency:LIMit:LOWer <nu>
Anl Funct	SENSe[1]:FREQuency:LIMit:UPPer <nu>
Anl Funct	SENSe[1]:FREQuency:SELect CW | FIXed MULTisine GENTrack CH1F CH2F AUToboth | AUTOboth
Anl Funct	SENSe[1]:FUNCtion OFF RMS RMSSelect PEAK QPEak SN

	DC THD THDNsndr MDISt DFD DIM POLarity FFT RUBBuzz NOCTave RECord PESQ
Anl Funct	SENSe[1]:FUNCtion:APERture:MODE AFASt AUTO TRIGgered GENTrack VALue FAST SFASt SLOW WIDE MEDium NARRow
Anl Funct	SENSe[1]:FUNCtion:BARGraph ON OFF
Anl Funct	SENSe[1]:FUNCtion:DCSuppression ON OFF
Anl Funct	SENSe[1]:FUNCtion:DISTortion<i> ON OFF <i> = 2 … 9 describes harmonics
Anl Funct	SENSe[1]:FUNCtion:DMODe FAST PRECision
Anl Funct	SENSe[1]:FUNCtion:FFT:AVERage <n> <n> = ~~2…256~~ 1 … 10000

Anl Funct	SENSe[1]:FUNCtion:FFT:AVERage:MODE OFF NORMal EXPonential
Anl Funct	SENSe[1]:FUNCtion:FFT:CENTer <nu>
Anl Funct	SENSe[1]:FUNCtion:FFT:CMPFactor <n> <n> = 1,2,4,8,16,32,64,128,256,512,1024 1 turns off undersampling. 2,4,8,16,32,64,128,256,512,1024 turn on undersampling. Query: If undersampling is turned off, query returns 1
Anl Funct	SENSe[1]:FUNCtion:FFT:Size S512 S1K S2K S4K S8K S16K S32K S64K S128K S256K
Anl Funct	SENSe[1]:FUNCtion:FFT:STATe ON OFF
Anl Funct	SENSe[1]:FUNCtion:FFT:USAMple ON|OFF
Anl Funct	SENSe[1]:FUNCtion:FFT:WINDow RECTangular HANN~~ing~~ BLACkman_harris RIF1 RIF2 RIF3 HAMMing FLATtop
Anl Funct	SENSe[1]:FUNCtion:MMODe **Peak** PPEak

	NPEak PTOPeak PABSolut **SN** RMS QPEak PPEak NPEak PTOPeak PABSolut **THD** SELectdi LSELectdi DALL LDALl DODD LDODd DEVen LDEVen **THD+N** THDN LTHDn SNDRatio NOISe LNOise **DFD** D2_268 | D2 D3_268 | D3 D2_118 D3_118 **NOCTave** OCT1 OCT3 OCT6 OCT12 OCT24 **PESQ** DUT OFFLine
Anl Funct	SENSe[1]:FUNCtion:PESQ:ACCording PP862 PPSI862 | PSILence PPSP862 | PSPeach MP8621 MP8622

	MPSI8621 (new) MPSP8621 (new) MPSI8622 (new) MPSP8622 (new)
Anl Funct	SENSe[1]:FUNCtion:PESQ:AVGDelay? Query Only
Anl Funct	SENSe[1]:FUNCtion:PESQ:DEGLevel? Query Only
Anl Funct	SENSe[1]:FUNCtion:PESQ:REFLevel? Query Only
Anl Funct	SENSe[1]:FUNCtion:RECord:FILE Alias SENSe[1]:FUNCtion:RECord:FILe 'filename'
Anl Funct	SENSe[1]:FUNCtion:RECord:LENGth <nu> <nu> in s
Anl Funct	SENSe[1]:FUNCtion:RECord:TRIGger:LEVel <nu>
Anl Funct	SENSe[1]:FUNCtion:RECord:TRIGger:PRE <nu> <nu> in s
Anl Funct	SENSe[1]:FUNCtion:RECord:TRIGger:SLOPe RISing FALLing
Anl Funct	SENSe[1]:FUNCtion:RECord:TRIGger:SOURc e CH1 CH2 MANual GENBurst
Anl Funct	SENSe[1]:NOTCh DB0 DB12

	DB30 OFF
Anl Funct	SENSe[1]:NOTCh:FREQuency <nu>
Anl Funct	SENSe[1]:NOTCh:FREQuency:MODE VALue GENTrack
Anl Funct	SENSe[1]:SWEep:CONTrol OFF ASWeep ALISt ~~MSWeep~~ (new) ~~MLISt~~
Anl Funct	SENSe[1]:SWEep:POINts <n>
Anl Funct	SENSe[1]:SWEep:SPACing LINSteps LOGSteps LINPoints LOGPoints
Anl Funct	SENSe[1]:SWEep:STARt <nu> Alias SENSe[1]:FREQuency:STARt <nu>
Anl Funct	SENSe[1]:SWEep:STEP <nu>
Anl Funct	SENSe[1]:SWEep:STOP <nu> Alias SENSe[1]:FREQuency:STOP <nu>
Anl Funct	SENSe[1]:THDN:REJection NARRow WIDE
Anl Funct	SENSe[1]:UNAuto[1] ON OFF
Anl Funct	SENSe[1]:UNAuto2 ON OFF
Anl Funct	SENSe[1]:UNIT[1] V DBV

	:
Anl Funct	SENSe[1]:UNIT2 V DBV :
Anl Funct	SENSe[1]:USERunit[1] 'Unitstring'
Anl Funct	SENSe[1]:USERunit2 'Unitstring'
Anl Funct	SENSe[1]:VOLTage:APERture <nu>
Anl Funct	SENSe[1]:VOLTage:EQUalize ON OFF
Anl Funct	SENSe[1]:VOLTage:FUNDamental <nu>
Anl Funct	SENSe[1]:VOLTage:FUNDamental:MODE AUTO VALue GENTrack
Anl Funct	SENSe[1]:VOLTage:INTVtime <nu>
Anl Funct	SENSe[1]:VOLTage:INTVtime:MODE SFASt FAST SLOW FIXed VALue
Anl Funct (new)	MMEMory:LOAD:FREQuency: SLCFrequency 'filename' Alias MMEMory:LOAD:PWAVeform 'filename'
Anl Funct (new)	MMEMory:STORe:PWAVeform 'filename'
Anl Funct (new)	SENSe[1]:FREQuency:SELect CW | FIXed GENTrack CH1Freq CH2Freq AUToboth | AUTOboth Multichannel:

	SENSe[1]:FREQuency:SELect CW | FIXed GENTrack REFFrequency
Anl Proto	Query only SENSe8:PROTocol:CH<x>:BYTE<y>? <x> and <y> are suffixes <x> = Channel 1 or 2 <y> = Byte 0 … 4 Return value = 0 … 255
Anl Proto	SENSe8:FUNCtion OFF ON
Anl Proto	SENSe8:PROTocol:DISPlay ON OFF
Anl Proto	SENSe8:PROTocol:ERRor? Query only Answer: 0,"No error" or <n>,"PCM1,PCM2,PAR1,PAR2,…" <n> represents 10 Bits (d0 … d9) <n> = 0 … 1023 d0: PCM1 d1: PCM2 d2: PAR1 d3: PAR2 d4: LOC1 d5: LOC2 d6: CRC1 d7: CRC2 d8: INV1 d9: INV2
Anl Proto	SENSe8:PROTocol:HIGHlight NOTHing FOUTput BETWeen FSTart

Anl Proto	SENSe8:PROTocol:MODE AUTomatic | AUTOmatic CONSumer PROFessional
Anl Proto	SENSe8:PROTocol:PERSistence SHORt LONG FORever
Anl Proto	SENSe8:PROTocol:VIEW BINText BINonly
Aud Mon	AUXiliaries:AUDMonitor ON OFF
Aud Mon	AUXiliaries:PHONe ON OFF
Aud Mon	AUXiliaries:PHPermanent ON OFF
Aud Mon	AUXiliaries:SPEaker ON OFF
Aud Mon	AUXiliaries:SPEaker:CHANnel STEReo CH1 CH2
Aud Mon	AUXiliaries:SPEaker:SOURce INPut MONitor FUNCtion GENerator
Aud Mon	AUXiliaries:SPEaker:VOLume <n> <n> = 0 … -120
Aux	AUXiliaries:AAUXout

	DC AUDM1 | GENerator
Aux	AUXiliaries:DCValue <nu> <nu> = -2,5 … 2,5 V
Config	SYSTem:COMMunicate:GPIB:ADDRess <n> <n> = 0 … 31
Config	SYSTem:DISPlay:SCPIUpdate Alias SYSTem:DISPlay:SCPiupdate OFF ON
Config	SYSTem:QLONg OFF ON
Config (new)	SYSTem:PROFile:CLIPboard 'Filename'
Config (new)	SYSTem:PROFile:FILE 'Filename'
Config (new)	SYSTem:PROFile:PRINter 'Filename'
Config (new)	SYSTem:PROFile:SCReen 'Filename'
Config (new)	SYSTem:LANGuage Alias SYSTem:HELP:LANGuage ENGLish GERMan
Diagnostic	DIAGnostic:PASSword "Password" The password is not disclosed here! The query answer is 'Passwrd ok', not the actual password.
Display	DISPlay:*Subsys*<i>:A|B:BOTTom <nu>
Display	DISPlay:*Subsys*<i>:A|B:LIMLower ON OFF

Display	DISPlay:*Subsys*<i>:A|B:LIMLower:SOURce VALue HOLD FILE IFILe
Display	DISPlay:*Subsys*<i>:A|B:LIMLower:SOURce:FIL E 'filename'
Display	DISPlay:*Subsys*<i>:A|B:LIMLower:SOURce:VA Lue <nu>
Display	DISPlay:*Subsys*<i>:A|B:LIMShift ON OFF
Display	DISPlay:*Subsys*<i>:A|B:LIMShift:PARallel <nu>
Display	DISPlay:*Subsys*<i>:A|B:LIMShift:SYMMetrical <nu>
Display	DISPlay:*Subsys*<i>:A|B:LIMUpper ON OFF
Display	DISPlay:*Subsys*<i>:A|B:LIMUpper:SOURce VALue HOLD FILE IFILe
Display	DISPlay:*Subsys*<i>:A|B:LIMUpper:SOURce:FIL E 'filename'
Display	DISPlay:*Subsys*<i>:A|B:LIMUpper:SOURce:VA Lue <nu>
Display	DISPlay:*Subsys*<i>:A|B:MARKer:HARMonics ON OFF
Display	DISPlay:*Subsys*<i>:A|B:MARKer:MODE OFF FIXed TRKMax

Display	DISPlay:*Subsys*<i>:A|B:MARKer:SETTo:OCURsor ONCE | EXEC DISPlay:*Subsys*<i>:A|B:MARKer:SETTo:XCURsor ONCE | EXEC ONCE or EXEC are not necessary No Query
Display	DISPlay:*Subsys*<i>:A|B:MARKer:SETTo:XPOS <nu>
Display	DISPlay:*Subsys*<i>:A|B:NORMalize OFF VALue OCURsor XCURsor All subsystems except WAVeform
Display	DISPlay:*Subsys*<i>:A|B:NORMalize:VALue <nu> All subsystems except WAVeform
Display	DISPlay:*Subsys*<i>:A|B:REFerence MEASpanel VALue MAXimum XCURsor OCURsor REF997 REF1000 CH1Meas CH2Meas GENTrack FILE HOLD
Display	DISPlay:*Subsys*<i>:A|B:REFerence:FILE 'filename'
Display	DISPlay:*Subsys*<i>:A|B:REFerence:VALue <nu>
Display	DISPlay:*Subsys*<i>:A|B:SPACing <nu>
Display	DISPlay:*Subsys*<i>:A|B:TOP <nu>

Display	DISPlay:*Subsys*<i>:A|B:UNIT V DBV DBU :
Display	DISPlay:*Subsys*<i>:A|B:UNIT:AUTO Alias DISPlay:*Subsys*<i>:A|B:UNIT:AUTo ON OFF
Display	DISPlay:*Subsys*<i>:A|B:UNIT:TRACk ON OFF
Display	DISPlay:*Subsys*<i>:A|B:UNIT:USER 'string'
Display	DISPlay:*Subsys*<i>:A|B:UPDate ALIVE HOLD
Display	DISPlay:*Subsys*<i>:A|B:YSOurce **SWEep dual channel:** OFF FUNC1 FUNC2 FREQ1 FREQ2 PHASe GROupdelay LMRM1 LMRM2 LMDC1 LMDC2 LMPK1 LMPK2 INPP1 INPP2 FILEA FILEB **SWEep multichannel:** (new) OFF FUNCtion FREQuency PHASe GROupdelay

	LMRMs LMDC LMPK INPPeak FILEA FILEB **FFT dual channel:** OFF FFTL1 FFTL2 FFTP1 FFTP2 FILEA FILEB FFTP21 **FFT multichannel:** (new) FFTLevel FFTPhase FFTRefchphase FILEA FILEB **WAVeform dual channel:** OFF LEV1 LEV2 FILEA FILEB **WAVeform multichannel:** (new) OFF LEVel FILEA FILEB **BARgraph dual channel:** OFF FUNC1 FUNC2 FILEA FILEB **BARgraph multichannel:** (new) OFF FUNCtion FILEA FILEB **PESQ:** OFF

	PEMO DELay FILEA FILEB REFSignal DEGSignal DROPouts
Display	DISPlay:*Subsys*<i>:A|B:YSOurce:FILE 'filename'
Display	DISPlay:*Subsys*<i>:DLISt:FILTer ALL LIMUpper LIMLower LIMBoth HARMonics PEAKs
Display	DISPlay:*Subsys*<i>:OCURsor:MODE VA VB VAB HA HB
Display	DISPlay:*Subsys*<i>:OCURsor:POSMode PIXel POINt PEAK HARMonic Selection depends of subsystem (new)
Display	DISPlay:*Subsys*<i>:OCURsor:SETTo:MAX ONCE | EXEC DISPlay:*Subsys*<i>:XCURsor:SETTo:MAX ONCE | EXEC ONCE or EXEC are not necessary No Query
Display	DISPlay:*Subsys*<i>:OCURsor:SETTo:MIN ONCE | EXEC DISPlay:*Subsys*<i>:XCURsor:SETTo:MIN ONCE | EXEC ONCE or EXEC are not necessary

	No Query
Display	DISPlay:*Subsys*<i>:OCURsor:SETTo:MRKA ONCE | EXEC DISPlay:*Subsys*<i>:XCURsor:SETTo:MRKA ONCE | EXEC ONCE or EXEC are not necessary Not allowed for BARgraph subsystem (new) No Query
Display	DISPlay:*Subsys*<i>:OCURsor:SETTo:MRKB ONCE | EXEC DISPlay:*Subsys*<i>:XCURsor:SETTo:MRKB ONCE | EXEC ONCE or EXEC are not necessary Not allowed for BARgraph subsystem (new) No Query
Display	DISPlay:*Subsys*<i>:OCURsor:SETTo:XPOS <nu>
Display	DISPlay:*Subsys*<i>:OCURsor:SETTo:YPOS <nu> Horizontal cursor only
Display	DISPlay:*Subsys*<i>:OCURsor:STATe OFF ACTive INACtive
Display	DISPlay:*Subsys*<i>:SCANoffset <n> <i> = 1, 2 <n> = 2 | MAX, 1 | MIN, 0 Query and command logging show the numerical value 2 for MAX and 1 for MIN
Display	DISPlay:*Subsys*<*i*>:TRACk:LIMit ON OFF
Display	DISPlay:*Subsys*<*i*>:TRACk:REFerence ON

	OFF
Display	DISPlay:*Subsys*<*i*>:TRACk:SCALing ON OFF
Display	DISPlay:*Subsys*<i>:X:AXIS TIME VOLTage FREQuency PHASe VDIGital JPKamplitude
Display	DISPlay:*Subsys*<i>:X:LEFT <nu>
Display	DISPlay:*Subsys*<i>:X:REFerence:VALue <nu>
Display	DISPlay:*Subsys*<i>:X:RIGHt <nu>
Display	DISPlay:*Subsys*<i>:X:SCALing AUTo | AUTO MANual
Display	DISPlay:*Subsys*<i>:X:SOUrce SWEep HOLD MANual LRMS LDC LPEak FREQuency
Display	DISPlay:*Subsys*<i>:X:SPACing <nu>
Display	DISPlay:*Subsys*<i>:X:UNIT HZ DHZ :
Display	DISPlay:*Subsys*<i>:X:UNIT:AUTO Alias DISPlay:*Subsys*<i>:X:UNIT:AUTo ON OFF
Display	DISPlay:*Subsys*<i>:X:UNIT:USER 'string'

Display	DISPlay:*Subsys*<i>:XCURsor:MODE VA VB VAB HA HB
Display	DISPlay:*Subsys*<i>:XCURsor:POSMode PIXel POINt PEAK HARMonic Selection depends of subsystem (new)
Display	DISPlay:*Subsys*<i>:XCURsor:SETTo:XPOS <nu>
Display	DISPlay:*Subsys*<i>:XCURsor:SETTO:YPOS <nu> Horizontal cursor only
Display	DISPlay:*Subsys*<i>:XCURsor:STATe OFF ACTive INACtive
Display	MMEMory:*Subsys*<*i*>:LIMit:OFFSet:VALue <nu>
Display	Query only DISPlay:*Subsys*<i>:OCURsor:Y?
Display	Query only DISPlay:*Subsys*<i>:XCURsor:Y?
Display (new)	DISPlay:SWEep<i>:SMODe SINGlescan MULTiscan Only for SWEep Subsystem!
Display (new)	DISPlay:SWEep<i>:HISTory <n> <n> = 2 … 20 Only for SWEep Subsystem!

Display (new)	DISPlay:SWEep<i>:MINMax ON OFF Only for SWEep Subsystem!
Display (new)	DISPlay:*Subsys*1:COPYother ONCE | EXEC not for subsystem WAVeform This command is allowed only for the first window of a subsystem, otherwise error message. Kein Query
Filter	Query only! SENSe[1]:UFILter<i>:STOPb:LOWer? <i> = 1 … 9
Filter	Query only! SENSe[1]:UFILter<i>:STOPb:UPPer? <i> = 1 … 9
Filter	Query only! SENSe[1]:UFILter<i>:STOPb? <i> = 1 … 9
Filter	SENSe:UFILter<i>:ORDer N4 N8 <i> = 1 … 9
Filter	SENSe[1]:UFILter<i> HPASs LPASs BPASs BSTop BSTOp NOTCh TOCTave OCTave FILE <i> = 1 … 9
Filter	SENSe[1]:UFILter<i>:ATTenuation <nu> <i> = 1 … 9

Filter	SENSe[1]:UFILter<i>:CENTer <nu> <i> = 1 … 9
Filter	SENSe[1]:UFILter<i>:DELay <nu> <i> = 1 … 9
Filter	SENSe[1]:UFILter<i>:FNAMe 'filename' <i> = 1 … 9
Filter	SENSe[1]:UFILter<i>:PASSb <nu> <i> = 1 … 9
Filter	SENSe[1]:UFILter<i>:PASSb:LOWer <nu> <i> = 1 … 9
Filter	SENSe[1]:UFILter<i>:PASSb:UPPer <nu> <i> = 1 … 9
Filter	SENSe[1]:UFILter<i>:WIDTh <nu> <i> = 1 … 9
Gen Config	INSTrument[1][:SELect] ANLG | A25 DIG | D48 I2Sboard | I2S IMPairment Alias INSTrument[1]:NSELect 1 | 2 | 3 | 4 | 5 1 = ANLG 2 or 3 = DIG 4 = I2SBoard 5 = IMPairment
Gen Config	OUTPut ON OFF
Gen Config	OUTPut:AUDiobits <n>
Gen Config	OUTPut:BANDwidth:MODE B22 B40 B80 AUTo | AUTO

Gen Config	OUTput:CHANnel Alias OUTput:SELect OFF CH1 CH2 CH2Is1
Gen Config	OUTPut:DIGital:AUXiliary:OUTput Alias OUTPut:DIGital:AUXiliary:FEED Alias OUTPut:DIGital:REFerence:OUTput Alias OUTPut:DIGital:REFerence:FEED AOUTput AINPut AINReclock RGENerator AUXin
Gen Config	OUTPut:DIGital:CSIMulator OFF SIMLong
Gen Config	OUTPut:DIGital:INTClockfreq <nu>
Gen Config	OUTPut:DIGital:SYNC:OUTPut Alias OUTPut:DIGital:SYNC:FEED ADOutput ADINput AXINput GSYPll JRFPll AXOutput SYINput INTClock
Gen Config	OUTPut:DIGital:SYNC:TYPE WCLock BCLock
Gen Config	OUTPut:DIGital:UNBalanced:OUTPut Alias OUTPut:DIGital:UNBalanced:FEED AOUTput AINPut

Gen Config	OUTPut:FORMat SI2S USERdefined
Gen Config	OUTPut:FSHape SQUpuls BITPulse
Gen Config	OUTPut:IMPedance R10 R200 R600
Gen Config	OUTPut:LOW FLOat GROund
Gen Config	OUTPut:MCLKratio M96 M128 M192 M256 M384 M512
Gen Config	OUTPut:POLarity Parameter depend on the setting of OUTP:FPU Parameter for the setting OUTP:FPU SQU: OUTPut:POLarity LFTLow LFTHigh Parameter for the setting OUTP:FPU BITP: OUTPut:POLarity NEGative POSitive
Gen Config	OUTPut:SAMPle:FREQuency <nu>
Gen Config	OUTPut:SAMPle:MODE Parameter for Generator-Instrument Digital Audio: F32 F44 F48 F88 F96

	F176 F192 SYNChron VALue Parameter for Generator-Instrument I2S Board: F08 F11 F16 F22 F32 F44 F48 F88 F96 F176 F192 F384 VALue
Gen Config	OUTPut:SIGNal:BALanced:LEVel <nu>
Gen Config	OUTPut:SIGNal:LEVel <nu>
Gen Config	OUTPut:TYPE BALanced UNBalanced CTESt
Gen Config	OUTPut:WLENgth Alias OUTPut:WORDlength W16 W24 W32

Gen Config	OUTPut:WOFFset <n>
	Alias
	OUTPut:WRDOffset <n>
	
	If (OUTPut:WLENgth == W16)
	<n> = -16 … 15
	If (OUTPut:WLENgth == W24)
	<n> = -24 … 23
	If (OUTPut:WLENgth == W32)
	<n> = -32 … 31

Gen Config	SOURce:DIGital:FRAMephase <nu>

Gen Config	SOURce:DIGital:PHASetorefvar OFF VALue
Gen Config	SOURce:DIGital:REFerence AZERo AONE
Gen Config	SOURce:SRCMode Alias SOURce:DIGital:SRCMode Alias SOURce:DIGital:FEED ~~ADATa~~ (new) JITTer COMMon
Gen Config	SOURce:FREQuency:REFerence <nu>
Gen Config	SOURce:IMPairment ON OFF
Gen Config	SOURce:VOLTage:MAXimum <nu> Alias SOURce:VOLTage:LIMit <nu>
Gen Config	SOURce:VOLTage:RANGe AUTO FIX
Gen Config	SOURce:VOLTage:REFerence <nu>
Gen Config (new)	OUTPut:SYNC:OUTPut Alias OUTPut:SYNC:FEED Alias OUTPut:SYNC:OUTPut Alias OUTPut:SYNC:FEED ADOutput ADINput AXINput GSYPll JRFPll AXOutput SYINput INTClock | ICLock

Gen Config (new)	SOURce:SYNC:TO Alias SOURce:SYNC:SOURce Alias SOURce:DIGital:SYNC:TO Alias SOURce:DIGital:SYNC:SOURce **For Digital Audio:** INTClock | GCLock AINPut AUXinput | RINPut SINPut SINVinput **For I2S Board:** INTern EXTMasterclock EXTWordclock
Gen Funct	for Multisinus: SOURce:FUNCtion:MODE EQUalvoltage DEFinedvoltage for DFD: SOURce:FUNCtion:MODE IEC268 IEC118 for Modulation: SOURce:FUNCtion:MODE AM FM
Gen Funct	MMEMory:LOAD:ARBitrary ’filename’
Gen Funct	MMEMory:LOAD:DWELl ’filename’
Gen Funct	MMEMory:LOAD:FREQuency 'file’
Gen Funct	MMEMory:LOAD:INTerval ’filename’
Gen Funct	MMEMory:LOAD:OEQualize ’filename’
Gen Funct	MMEMory:LOAD:ONTime ’filename’
Gen Funct	MMEMory:LOAD:PHASe ’filename’

Gen Funct	MMEMory:LOAD:VOLTage ’filename’
Gen Funct	SOURce:AM:MODE OFF SINusoid BURSt
Gen Funct	SOURce:BANDwidth F30 F100
Gen Funct	SOURce:DIM DIMA DIMB DIMS
Gen Funct	SOURce:FILTer OFF UFIL1 UFIL2 UFIL3 UFIL4 UFIL5 UFIL6 UFIL7 UFIL8 UFIL9 AWE CARM CCIU CCIR CCIT CMES DCN DEMP17 DEMP5015 DEMP50 DEMP75 IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50 PEMP75 HP22 HP400 LP22

	LP30 LP80 AES17 CWE
Gen Funct	SOURce:FREQuency:AM <nu>
Gen Funct	SOURce:FREQuency:CH2Stereo <nu>
Gen Funct	SOURce:FREQuency:DIFFerence <nu>
Gen Funct	SOURce:FREQuency:MEAN <nu>
Gen Funct	SOURce:FREQuency:SELect FQPH FQFQ
Gen Funct	SOURce:FREQuency[1] [:CW|FIXed] <nu>
Gen Funct	SOURce:FREQuency<i>[:CW|FIXed] <nu> <i> = 3 … 32
Gen Funct	SOURce:FREQuency2[:CW|FIXed] <nu>
Gen Funct	SOURce:FUNCtion[:SHAPe] SINusoid STEReo MULTisine BURSt S2Pulse MDISt DFD DIM RANDom ARBitrary POLarity MODulation | FM DC PLAY PLYAnlr | O131
Gen Funct	SOURce:INTerval <nu>
Gen Funct	SOURce:LOOP:CHANnel OFF CH1

	CH2 STEReo CROSsed
Gen Funct	SOURce:LOOP:GAIN <nu> <nu> in MLT | DB
Gen Funct	SOURce:LOWDistortion ON OFF
Gen Funct	SOURce:MULTisine:COUNt <n>
Gen Funct	SOURce:ONTime <nu>
Gen Funct	SOURce:ONTime:DELay <nu>
Gen Funct	SOURce:PHASe[<i>] <i> = 1 ... 32 <nu> = 0 ... 360 °
Gen Funct	SOURce:PLAY:CHANnel MLEFt MRIGht STEReo
Gen Funct	SOURce:PLAY:MODE TOCont TOSingle TICont TISingle
Gen Funct	SOURce:PLAY:SCALepktofs ON OFF
Gen Funct	SOURce:PLAY:TIME <nu>
Gen Funct	SOURce:RANDom:DOMain FREQuency TIME
Gen Funct	SOURce:RANDom:FREQuency:LOWer <nu>
Gen Funct	SOURce:RANDom:FREQuency:UPPer <nu>

Gen Funct	SOURce:RANDom:PDF GAUSsian TRIangle RECTangle
Gen Funct	SOURce:RANDom:SHAPe WHITe PINK TOCTave FILE | ARBitrary (new)
Gen Funct	SOURce:RANDom:SPACing:FREQuency <nu>
Gen Funct	SOURce:RANDom:SPACing:MODE ATRack USERdefined
Gen Funct	SOURce:SINusoid:DITHer <nu>
Gen Funct	SOURce:SINusoid:DITHer:STATe ON OFF
Gen Funct	SOURce:SWEep:CONTrol OFF ASWeep ALISt MSWeep MLISt
Gen Funct	SOURce:SWEep:DWELl <nu> <nu> = 10 ms ... 1000 s
Gen Funct	SOURce:SWEep:FREQuency: SPACing LINSteps LOGSteps LINPoints LOGPoints
Gen Funct	SOURce:SWEep:FREQuency:POINts <n>
Gen Funct	SOURce:SWEep:FREQuency:STARt <nu>
Gen Funct	SOURce:SWEep:FREQuency:STEP <nu>

Gen Funct	SOURce:SWEep:FREQuency:STOP <nu>
Gen Funct	SOURce:SWEep:INTerval: SPACing LINSteps LOGSteps LINPoints LOGPoints
Gen Funct	SOURce:SWEep:INTerval:POINts <n>
Gen Funct	SOURce:SWEep:INTerval:STARt <nu>
Gen Funct	SOURce:SWEep:INTerval:STEP <nu>
Gen Funct	SOURce:SWEep:INTerval:STOP <nu>
Gen Funct	SOURce:SWEep:NEXTstep DWELl ASYNc LIST
Gen Funct	SOURce:SWEep:ONTime: SPACing LINSteps LOGSteps LINPoints LOGPoints
Gen Funct	SOURce:SWEep:ONTime:POINts <n>
Gen Funct	SOURce:SWEep:ONTime:STARt <nu>
Gen Funct	SOURce:SWEep:ONTime:STEP <nu>
Gen Funct	SOURce:SWEep:ONTime:STOP <nu>
Gen Funct	SOURce:SWEep:PHASe: SPACing LINSteps LOGSteps LINPoints LOGPoints
Gen Funct	SOURce:SWEep:PHASe:POINts <n>
Gen Funct	SOURce:SWEep:PHASe:STEP <nu>

Gen Funct	SOURce:SWEep:PHASe:STOP <nu>
Gen Funct	SOURce:SWEep:PHASe:STOP <nu>
Gen Funct	SOURce:SWEep:VOLTage: SPACing LINSteps LOGSteps LINPoints LOGPoints
Gen Funct	SOURce:SWEep:VOLTage:POINts <n>
Gen Funct	SOURce:SWEep:VOLTage:STARt <nu>
Gen Funct	SOURce:SWEep:VOLTage:STEP <nu>
Gen Funct	SOURce:SWEep:VOLTage:STOP <nu>
Gen Funct	SOURce:SWEep:XAXis FREQuency VOLTage ONTIme INTerval
Gen Funct	SOURce:SWEep:ZAXis OFF FREQuency VOLTage ONTIme INTerval
Gen Funct	SOURce:VOLTage:AM <nu> <nu> in PCT (%)
Gen Funct	SOURce:VOLTage:CH2Stereo <nu>
Gen Funct	SOURce:VOLTage:CREStfactor <nu>
Gen Funct	SOURce:VOLTage:CREStfactor:MODE MINimized DPHase VALue
Gen Funct	SOURce:VOLTage:EQUalize:STATe ON

	OFF
Gen Funct	SOURce:VOLTage:LOWLevel <nu>
Gen Funct	SOURce:VOLTage:OFFSet <nu>
Gen Funct	SOURce:VOLTage:OFFSet:STATe ON OFF
Gen Funct	SOURce:VOLTage:RATio <n>
Gen Funct	SOURce:VOLTage:RMS <nu>
Gen Funct	SOURce:VOLTage:SELect VLRT VLVL
Gen Funct	SOURce:VOLTage:TOTal <nu>
Gen Funct	SOURce:VOLTage:TOTal:GAIN <nu> <nu> in dB
Gen Funct	SOURce:VOLTage[1] <nu> Basic unit V or FS with Modulation %
Gen Funct	SOURce:VOLTage<i> <nu> <i> = 3 … 32 Basic unit V or FS with Modulation %
Gen Funct	SOURce:VOLTage2 <nu> Basic unit V or FS with Modulation %
Gen Proto	SOURce:PROTocol:AZERo ONCE Query answer is always OFF
Gen Proto	SOURce:PROTocol:CH<x>:BYTE<y> <n> <x> and <y> are suffixes

	<x> = CHannel 1 or 2 <y> = Byte 0 … 3 <n> = Value 0 … 255
Gen Proto	SOURce:PROTocol:CHANnels CH2Is1 SPLit
Gen Proto	SOURce:PROTocol:CRC ON OFF
Gen Proto	SOURce:PROTocol:MODE PROFessional CONSumer
Gen Proto	SOURce:PROTocol:NUMerical:BYTe <n> <n> = 0 … 3
Gen Proto	SOURce:PROTocol:NUMerical:CH <n> <n> = 1 | 2
Gen Proto	SOURce:PROTocol:NUMerical:VALue <n> <n> = 0 … 255
Gen Proto	SOURce:PROTocol:VALidity NONE CH1And2
Hardcopy	HCOPy:[IMMediate] No Query
Hardcopy	HCOPy:DESTination PRINter | PRPCx | PRSPc FILE CLIPboard
Hardcopy	HCOPy:FILE 'name'
Hardcopy	HCOPy:FILE:MODE (new) Alias HCOPy:FILE:MODe NEW

	OVERwrite INCRement
Hardcopy	HCOPy:PRINter:ADDition OFF ON
Hardcopy	HCOPy:PRINter:FOOTer 'text'
Hardcopy	HCOPy:PRINter:HEADer 'text'
Hardcopy	HCOPy:PRINter:ORIentation PORTrait LANDscape
Hardcopy	HCOPy:SOURce WINDow GRAPhics
Load Setup	MMEMory:LOAD:STATe "filename"
Load Trc	FORMat[:DATA] REAL ASCii
Load Trc	Query only: TRACe:*Subsys<i>*:LOAD:AX? TRACe:*Subsys<i>*:LOAD:AY? TRACe:*Subsys<i>*:LOAD:BX? TRACe:*Subsys<i>*:LOAD:BY?
Load Trc	Query only: TRACe:*Subsys<i>*:LOAD:COUNt:AX? TRACe:*Subsys<i>*:LOAD:COUNt:AY? TRACe:*Subsys<i>*:LOAD:COUNt:BX? TRACe:*Subsys<i>*:LOAD:COUNt:BY?
Load Trc	Query only: TRACe:*Subsys<i>*:LDList:AX? TRACe:*Subsys<i>*:LDList:AY? TRACe:*Subsys<i>*:LDList:BX? TRACe:*Subsys<i>*:LDList:BY?
Load Trc	Query only:

	TRACe:*Subsys<i>*:LDList:COUNt:AX? TRACe:*Subsys<i>*:LDList:COUNt:AY? TRACe:*Subsys<i>*:LDList:COUNt:BX? TRACe:*Subsys<i>*:LDList:COUNt:BY?
Special	INITiate:CONTinuous ON OFF WAIT
Special	INITiate:CONTinuous:TIMeout <nu> <nu> 0 to 1000s 0s is the same as INIT:CONT ON
Special	INITiate:FORCe STARt STOP SINGle CONTinuous No Query
Special	INITiate[:IMMediate] No Query
Special	STATus:OPERation? Alias STATus:OPERation:EVENt? STATus:OPERation:CONDition? STATus:OPERation:ENABle <n> STATus:OPERation:PTRansition <n> STATus:OPERation:NTRansition <n> STATus:QUEStionable? Alias STATus:QUEStionable:EVENt? STATus:QUEStionable:CONDition? STATus:QUEStionable:ENABle <n> STATus:QUEStionable:PTRansition <n> STATus:QUEStionable:NTRansition <n> STATus:XQUEstionable? Alias STATus:XQUEstionable:EVENt? STATus:XQUEstionable:CONDition? STATus:XQUEstionable:ENABle <n> STATus:XQUEstionable:PTRansition <n> STATus:XQUEstionable:NTRansition <n> (new) STATus:QUEStionable:MEASuring?

	Alias STATus:QUEStionable:MEASuring:EVENt? STATus:QUEStionable:MEASuring:CONDition? STATus:QUEStionable:MEASuring:ENABle <n> STATus:QUEStionable:MEASuring:PTRansition <n> STATus:QUEStionable:MEASuring:NTRansition <n> STATus:QUEStionable:OVERrange? Alias STATus:QUEStionable:OVERrange:EVENt? STATus:QUEStionable:OVERrange:CONDition? STATus:QUEStionable:OVERrange:ENABle <n> STATus:QUEStionable:OVERrange:PTRansition <n> STATus:QUEStionable:OVERrange:NTRansition <n> STATus:QUEStionable:UNDerrange? Alias STATus:QUEStionable:UNDerrange:EVENt? STATus:QUEStionable:UNDerrange:CONDition? STATus:QUEStionable:UNDerrange:ENABle <n> STATus:QUEStionable:UNDerrange:PTRansition <n> STATus:QUEStionable:UNDerrange:NTRansition <n> UNDerrange alias UNDERrange <n> = Unsigned Integer 0 … 65535 STATus:QUEue:NEXT STATus:PRESet
Special	SYSTem:DISPlay:EXPLanation<i>:HIDE <i> = 1…10
Special	SYSTem:DISPlay:EXPLanation<i>:SHOW “x=0,y=10,w=200,h=100” <i> = 1…10
Special	SYSTem:DISPlay:EXPLanation<i>:TEXT "<RTF-Text>" <i> = 1…10
Special	SYSTem:MEMory:DATA<i> <x> <x> may be a set of ASCII data <n,n, ….. ,n,n> or a set of binary data #<LengthofLength><Length><Binary data as float> <i> = 1 … 16
Special	SYSTem:MEMory:FREE STRing TRACe

	No Query
Special	SYSTem:MEMory:STRing<i> "String" <i> = 1 … 1024 Stringlength max. 540 Byte
Special	SYSTem:PROGramm:EXECute 'xxx.exe'
Special	SYSTem:SHUtdown SYSTem:SHUtdown <nu> Alias SYSTem:SHTDown SYSTem:SHTDown <nu> No Query
Store Setup	MMEMory:STORe:STATe "filename"
Store Trc	MMEMory:*Subsys<i>*:EQUalization:MODify ON OFF
Store Trc	MMEMory:*Subsys*<i>:EQUalization:NORMfrequency <nu>
Store Trc	MMEMory:*Subsys*<i>:LIMit:OFFSet OFF ON
Store Trc	MMEMory:*Subsys*<i>:STAS TRCList EQUList SWPList LLISt DSELect
Store Trc	MMEMory:*Subsys*<i>:STORe "Mysweep.trc"
Store Trc	MMEMory:*Subsys*<i>:TRACe A B
Store Trc	TRACe:SWE<i>:STORe:AX <x>

	TRACe:*Subsys<i>*:STORe:AY <x> TRACe:SWE<i>:STORe:BX <x> TRACe:*Subsys<i>*:STORe:BY <x> <x> may be a set of ASCII data <n,n, ….. ,n,n> or a set of binary data #<LengthofLength><Length><Binary data as float> AX and BX only for SWEep Subsystem! To manipulate a sweep axis, it is strictly recommended to set the X-Source to "Manual" No Query. Query replacement is the command TRACe:*Subsys<i>*:LOAD:AX|AY|BX|BY?
Switcher	SWITcher:INPA <n> Alias SWITcher:INPut[1] <n>
Switcher	SWITcher:INPB <n> Alias SWITcher:INPut2 <n>
Switcher	SWITcher:OFFSet:BVSA <n> Alias SWITcher:OFFSet:CH2V <n>
Switcher	SWITcher:OFFSet:OVSI <n> Alias SWITcher:OVI <n>
Switcher	SWITcher:OUTA <n> Alias SWITcher:OUTPut[1] <n>
Switcher	SWITcher:OUTB <n> Alias SWITcher:OUTPut2 <n>
Switcher	SWITcher:STATe ON OFF
Switcher	SWITcher:TRACking OFF

	BVSA | CH2V OVSI | OVI ALL
Trigger	AUXiliaries:TRIGger:INPut:EDGE RISing FALLing
Trigger	AUXiliaries:TRIGger:INPut:ENAble ON OFF
Trigger	AUXiliaries:TRIGger:INPut:MODE MSINgle MCONtstop TRIGinptest
Trigger	AUXiliaries:TRIGger:OUTPut:EDGE RISing FALLing
Trigger	AUXiliaries:TRIGger:OUTPut:ENAble ON OFF
Trigger	AUXiliaries:TRIGger:OUTPut:FREQuency <nu>
Trigger	AUXiliaries:TRIGger:OUTPut:MODE MEASuring AUXClockout
Trigger (new)	TRIGger:CHANnel (new) OFF CH1 CH2 CH3[1,2] CH4[1,2] CH5[1,2] CH6[1,2] CH7[1,2] CH8[1,2] CH9[2] CH10[2] CH11[2] CH12[2] CH13[2] CH14[2]

	CH15[2] CH16[2]

Alphabetical List of Remote Control Commands

Command-Mnemonic
ADJust:JITTer:AUTO Alias CALibrate:JITTer:AUTO ONCE Query answer is always OFF
ADJust:LDG:AUTO Alias CALibrate:LDG:AUTO ONCE Query answer is always OFF
ADJust:SECGen:AUTO ONCE Query answer is always OFF
ADJust:ZERO:AUTO Alias CALibrate:ZERO:AUTO OFF ON ONCE
AUXiliaries:AAUXout DC AUDM1 | GENerator
AUXiliaries:AUDMonitor ON OFF
AUXiliaries:DCValue <nu> <nu> = -2,5 … 2,5 V
AUXiliaries:PHONe ON OFF

AUXiliaries:PHPermanent ON OFF
AUXiliaries:SPEaker ON OFF
AUXiliaries:SPEaker:CHANnel STEReo CH1 CH2
AUXiliaries:SPEaker:SOURce INPut MONitor FUNCtion GENerator
AUXiliaries:SPEaker:VOLume <n> <n> = 0 … -120
AUXiliaries:TRIGger:INPut:EDGE RISing FALLing
AUXiliaries:TRIGger:INPut:ENAble ON OFF
AUXiliaries:TRIGger:INPut:MODE MSINgle MCONtstop TRIGinptest
AUXiliaries:TRIGger:OUTPut:EDGE RISing FALLing
AUXiliaries:TRIGger:OUTPut:ENAble ON OFF
AUXiliaries:TRIGger:OUTPut:FREQuency <nu>
AUXiliaries:TRIGger:OUTPut:MODE

MEASuring AUXClockout
DIAGnostic:ADJustment Alias DIAGnostic:CALibration ALDG | CLDG AAGEn | CAGEn AANLr0 | CANLr0 ADPHase | CDPHase B48Primary (new) B48Secondary (new)
DIAGnostic:CALibration:ADDRess <n> Alias DIAGnostic:ADJustment:ADDRess <n>
DIAGnostic:CALibration:FDATa <n> Alias DIAGnostic:ADJustment:FDATa <n>
DIAGnostic:PASSword "Password" The password is not disclosed here! The query answer is 'Passwrd ok', not the actual password.
DISPlay:*Subsys*<i>:A|B:BOTTom <nu>
DISPlay:*Subsys*<i>:A|B:LIMLower ON OFF
DISPlay:*Subsys*<i>:A|B:LIMLower:SOURce VALue HOLD FILE IFILe
DISPlay:*Subsys*<i>:A|B:LIMLower:SOURce:FILE 'filename'
DISPlay:*Subsys*<i>:A|B:LIMLower:SOURce:VALue <nu>
DISPlay:*Subsys*<i>:A|B:LIMShift ON OFF

DISPlay:*Subsys*<i>:A|B:LIMShift:PARallel <nu>
DISPlay:*Subsys*<i>:A|B:LIMShift:SYMMetrical <nu>
DISPlay:*Subsys*<i>:A|B:LIMUpper ON OFF
DISPlay:*Subsys*<i>:A|B:LIMUpper:SOURce VALue HOLD FILE IFILe
DISPlay:*Subsys*<i>:A|B:LIMUpper:SOURce:FILE 'filename'
DISPlay:*Subsys*<i>:A|B:LIMUpper:SOURce:VALue <nu>
DISPlay:*Subsys*<i>:A|B:MARKer:HARMonics ON OFF
DISPlay:*Subsys*<i>:A|B:MARKer:MODE OFF FIXed TRKMax
DISPlay:*Subsys*<i>:A|B:MARKer:SETTo:OCURsor ONCE | EXEC DISPlay:*Subsys*<i>:A|B:MARKer:SETTo:XCURsor ONCE | EXEC ONCE or EXEC are not necessary No Query
DISPlay:*Subsys*<i>:A|B:MARKer:SETTo:XPOS <nu>
DISPlay:*Subsys*<i>:A|B:NORMalize OFF VALue OCURsor XCURsor All subsystems except WAVeform
DISPlay:*Subsys*<i>:A|B:NORMalize:VALue <nu>

All subsystems except WAVeform
DISPlay:*Subsys*<i>:A|B:REFerence MEASpanel VALue MAXimum XCURsor OCURsor REF997 REF1000 CH1Meas CH2Meas GENTrack FILE HOLD
DISPlay:*Subsys*<i>:A|B:REFerence:FILE 'filename'
DISPlay:*Subsys*<i>:A|B:REFerence:VALue <nu>
DISPlay:*Subsys*<i>:A|B:SPACing <nu>
DISPlay:*Subsys*<i>:A|B:TOP <nu>
DISPlay:*Subsys*<i>:A|B:UNIT V DBV DBU :
DISPlay:*Subsys*<i>:A|B:UNIT:AUTO Alias DISPlay:*Subsys*<i>:A|B:UNIT:AUTo ON OFF
DISPlay:*Subsys*<i>:A|B:UNIT:TRACk ON OFF
DISPlay:*Subsys*<i>:A|B:UNIT:USER 'string'
DISPlay:*Subsys*<i>:A|B:UPDate ALIVE HOLD
DISPlay:*Subsys*<i>:A|B:YSOurce

SWEep dual channel:
OFF
FUNC1
FUNC2
FREQ1
FREQ2
PHASe
GROupdelay
LMRM1
LMRM2
LMDC1
LMDC2
LMPK1
LMPK2
INPP1
INPP2
FILEA
FILEB

SWEep multichannel: (new)
OFF
FUNCtion
FREQuency
PHASe
GROupdelay
LMRMs
LMDC
LMPK
INPPeak
FILEA
FILEB

FFT dual channel:
OFF
FFTL1
FFTL2
FFTP1
FFTP2
FILEA
FILEB
FFTP21

FFT multichannel: (new)
FFTLevel
FFTPhase
FFTRefchphase
FILEA
FILEB

WAVeform dual channel:
OFF
LEV1

LEV2
FILEA
FILEB

WAVeform multichannel: (new)
OFF
LEVel
FILEA
FILEB

BARgraph dual channel:
OFF
FUNC1
FUNC2
FILEA
FILEB

BARgraph multichannel: (new)
OFF
FUNCtion
FILEA
FILEB

PESQ:
OFF
PEMO
DELay
FILEA
FILEB
REFSignal
DEGSignal
DROPouts

DISPlay:*Subsys*<i>:A|B:YSOurce:FILE 'filename'

DISPlay:*Subsys*<i>:DLISt:FILTer
ALL
LIMUpper
LIMLower
LIMBoth
HARMonics
PEAKs

DISPlay:*Subsys*<i>:OCURsor:MODE
VA
VB
VAB
HA
HB

DISPlay:*Subsys*<i>:OCURsor:POSMode
PIXel
POINt
PEAK
HARMonic

Selection depends of subsystem (new)

DISPlay:*Subsys*<i>:OCURsor:SETTo:MAX
ONCE | EXEC
DISPlay:*Subsys*<i>:XCURsor:SETTo:MAX
ONCE | EXEC

ONCE or EXEC are not necessary

No Query

DISPlay:*Subsys*<i>:OCURsor:SETTo:MIN
ONCE | EXEC
DISPlay:*Subsys*<i>:XCURsor:SETTo:MIN
ONCE | EXEC

ONCE or EXEC are not necessary

No Query

DISPlay:*Subsys*<i>:OCURsor:SETTo:MRKA
ONCE | EXEC
DISPlay:*Subsys*<i>:XCURsor:SETTo:MRKA
ONCE | EXEC

ONCE or EXEC are not necessary
Not allowed for BARgraph subsystem (new)

No Query

DISPlay:*Subsys*<i>:OCURsor:SETTo:MRKB
ONCE | EXEC
DISPlay:*Subsys*<i>:XCURsor:SETTo:MRKB
ONCE | EXEC

ONCE or EXEC are not necessary
Not allowed for BARgraph subsystem (new)

No Query

DISPlay:*Subsys*<i>:OCURsor:SETTo:XPOS <nu>

DISPlay:*Subsys*<i>:OCURsor:SETTo:YPOS <nu>

Horizontal cursor only
DISPlay:*Subsys*<i>:OCURsor:STATe OFF ACTive INACtive
DISPlay:*Subsys*<i>:SCANoffset <n> <i> = 1, 2 <n> = 2 | MAX, 1 | MIN, 0 Query and command logging show the numerical value 2 for MAX and 1 for MIN
DISPlay:*Subsys*<*i*>:TRACk:LIMit ON OFF
DISPlay:*Subsys*<*i*>:TRACk:REFerence ON OFF
DISPlay:*Subsys*<*i*>:TRACk:SCALing ON OFF
DISPlay:*Subsys*<i>:X:AXIS TIME VOLTage FREQuency PHASe VDIGital JPKamplitude
DISPlay:*Subsys*<i>:X:LEFT <nu>
DISPlay:*Subsys*<i>:X:REFerence:VALue <nu>
DISPlay:*Subsys*<i>:X:RIGHt <nu>
DISPlay:*Subsys*<i>:X:SCALing AUTo | AUTO MANual
DISPlay:*Subsys*<i>:X:SOUrce SWEep

HOLD MANual LRMS LDC LPEak FREQuency
DISPlay:*Subsys*<i>:X:SPACing <nu>
DISPlay:*Subsys*<i>:X:UNIT HZ DHZ :
DISPlay:*Subsys*<i>:X:UNIT:AUTO Alias DISPlay:*Subsys*<i>:X:UNIT:AUTo ON OFF
DISPlay:*Subsys*<i>:X:UNIT:USER 'string'
DISPlay:*Subsys*<i>:XCURsor:MODE VA VB VAB HA HB
DISPlay:*Subsys*<i>:XCURsor:POSMode PIXel POINt PEAK HARMonic Selection depends of subsystem (new)
DISPlay:*Subsys*<i>:XCURsor:SETTo:XPOS <nu>
DISPlay:*Subsys*<i>:XCURsor:SETTO:YPOS <nu> Horizontal cursor only
DISPlay:*Subsys*<i>:XCURsor:STATe OFF ACTive INACtive
DISPlay:*Subsys*1:COPYother

ONCE | EXEC

not for subsystem WAVeform

These command is allowed only for the first window of a subsystem, otherwise error message.

Kein Query

DISPlay:SWEep<i>:HISTory <n>

<n> = 2 … 20

Only for SWEep Subsystem!

DISPlay:SWEep<i>:MINMax
ON
OFF

Only for SWEep Subsystem!

DISPlay:SWEep<i>:SMODe
SINGlescan
MULTiscan

Only for SWEep Subsystem!

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for Multisinus:
SOURce:FUNCtion:MODE
EQUalvoltage
DEFinedvoltage

for DFD:
SOURce:FUNCtion:MODE
IEC268
IEC118

for Modulation:
SOURce:FUNCtion:MODE
AM
FM

FORMat[:DATA]
REAL
ASCii

HCOPy:[IMMediate]

No Query

HCOPy:DESTination
PRINter | PRPCx | PRSPc

FILE CLIPboard
HCOPy:FILE 'name'
HCOPy:FILE:MODE (new) Alias HCOPy:FILE:MODe NEW OVERwrite INCRement
HCOPy:PRINter:ADDition OFF ON
HCOPy:PRINter:FOOTer 'text'
HCOPy:PRINter:HEADer 'text'
HCOPy:PRINter:ORIentation PORTrait LANDscape
HCOPy:SOURce WINDow GRAPhics
INITiate:CONTinuous ON OFF WAIT
INITiate:CONTinuous:TIMeout <nu> <nu> 0 to 1000s 0s is the same as INIT:CONT ON
INITiate:FORCe STARt STOP SINGle CONTinuous No Query
INITiate[:IMMediate]

No Query

INPut:BANDwidth:MODE
B22
B40
B80
B250

INPut:CHANnel
Alias
INPut:SELect
CH1
CH2
CH1And2
CH1Is2
CH2Is1
BOTH

INPut:COUPling
AC
DC

INPut:COUPling:CHANnels
TRACk
SPLit

INPut:FILTer
OFF
UFIL1 … UFIL9
AWE
CARM
CCIU
CCIR
CCIT
CMES
DCN
DEMP17
DEMP5015
DEMP50
DEMP75
IECT
JITT
URUM
WRUM
PEMP17
PEMP5015
PEMP50
PEMP75
HP22

HP400 LP22 LP30 LP80 AES17 CWE
INPut:FORMat SI2S USERdefined
INPut:FSLope LFTFalling LFTRising
INPut:INPut INTern DSUB
INPut:MCHannel<i> ON OFF Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... 8^1/16^2
INPut:RANGe:CHANnels TRACk SPLit
INPut:SAMPle:FREQuency <nu>
INPut:SAMPle:FREQuency:MODE Parameter for Analyzer-Instrument Digital Audio: F32 F44 F48 F88 F96 F176 F192 VALue AUTO | AUTo CHSTatus INPut:SAMPle:FREQuency:MODe

Parameter for Analyzer-Instrument I2S Board:
F08
F11
F16
F22
F32
F44
F48
F88
F96
F176
F192
F384
VALue
AUTO | AUTo

INPut:WLENgth
Alias
INPut:WORDlength
W16
W24
W32

INPut:WOFFset <n>
Alias
INPut:WRDOffset <n>

INPut[1]:COMMon
Alias
INPut[1]:LOW
FLOat
GROund

INPut[1]:IMPedance
R300
R600
R200K

INPut[1]:TYPE
Parameter for Analyzer-Instrument Analog
BALanced
GEN1
GEN2

Parameter for Analyzer-Instrument Digital Audio
AESebu
SPDif
OPTical
INTern

INPut<i>:COUPling
AC
DC

Dual channel:
<i> = 1 | 2

Multichannel: (new)
<i> = 1 ... $8^1/16^2$

INPut2:COMMon
Alias
INPut2:LOW
FLOat
GROund

INPut2:IMPedance
R300
R600
R200K

INPut2:TYPE
BALanced
GEN1
GEN2

INSTrument[1][:SELect]
ANLG | A25
DIG | D48
I2Sboard | I2S
IMPairment

Alias

INSTrument[1]:NSELect 1 | 2 | 3 | 4 | 5
1 = ANLG
2 or 3 = DIG
4 = I2SBoard
5 = IMPairment

INSTrument2[:SELect]
ANLG | A22
DIG | D48
I2Sboard | I2S
A8Channel (new)
A16Channel (new)

Alias
INSTrument2:NSELect 1 | 2 | 3 | 4
1 = Analog

2 or 3 = Dig Audio 4 = I2S Board 8 = A8CHannel 9 = A16CHannel
MMEMory:LOAD:ARBitrary ’filename’
MMEMory:LOAD:DWELl ’filename’
MMEMory:LOAD:FREQuency 'file’
MMEMory:LOAD:FREQuency: SLCFrequency 'filename'
MMEMory:LOAD:FREQuency: SLCFrequency 'filename' Alias MMEMory:LOAD:PWAVeform 'filename'
MMEMory:LOAD:IEQualize ’filename’
MMEMory:LOAD:INTerval ’filename’
MMEMory:LOAD:OEQualize ’filename’
MMEMory:LOAD:ONTime ’filename’
MMEMory:LOAD:PHASe ’filename’
MMEMory:LOAD:STATe "filename"
MMEMory:LOAD:VOLTage ’filename’
MMEMory:STORe:PWAVeform 'filename'
MMEMory:STORe:STATe "filename"
MMEMory:*Subsys*<*i*>:EQUalization:MODify ON OFF
MMEMory:*Subsys*<i>:EQUalization:NORMfrequency <nu>

MMEMory:*Subsys*<i>:LIMit:OFFSet OFF ON
MMEMory:*Subsys*<*i*>:LIMit:OFFSet:VALue <nu>
MMEMory:*Subsys*<i>:STAS TRCList EQUList SWPList LLISt DSELect
MMEMory:*Subsys*<i>:STORe "Mysweep.trc"
MMEMory:*Subsys*<i>:TRACe A B
OUTPut ON OFF
OUTPut:AUDiobits <n>
OUTPut:BANDwidth:MODE B22 B40 B80 AUTo | AUTO
OUTput:CHANnel Alias OUTput:SELect OFF CH1 CH2 CH2Is1
OUTPut:DIGital:AUXiliary:OUTput Alias OUTPut:DIGital:AUXiliary:FEED Alias OUTPut:DIGital:REFerence:OUTput Alias OUTPut:DIGital:REFerence:FEED AOUTput AINPut

AINReclock RGENerator AUXin
OUTPut:DIGital:CSIMulator OFF SIMLong
OUTPut:DIGital:INTClockfreq <nu>
OUTPut:DIGital:SYNC:OUTPut Alias OUTPut:DIGital:SYNC:FEED ADOutput ADINput AXINput GSYPll JRFPll AXOutput SYINput INTClock
OUTPut:DIGital:SYNC:TYPE WCLock BCLock
OUTPut:DIGital:UNBalanced:OUTPut Alias OUTPut:DIGital:UNBalanced:FEED AOUTput AINPut
OUTPut:FORMat SI2S USERdefined
OUTPut:FSHape SQUpuls BITPulse
OUTPut:IMPedance R10 R200 R600
OUTPut:LOW FLOat GROund

OUTPut:MCLKratio M96 M128 M192 M256 M384 M512
OUTPut:POLarity Parameter depend on the setting of OUTP:FPU Parameter for the setting OUTP:FPU SQU: OUTPut:POLarity LFTLow LFTHigh Parameter for the setting OUTP:FPU BITP: OUTPut:POLarity NEGative POSitive
OUTPut:SAMPle:FREQuency <nu>
OUTPut:SAMPle:MODE Parameter for Generator-Instrument Digital Audio: F32 F44 F48 F88 F96 F176 F192 SYNChron VALue Parameter for Generator-Instrument I2S Board: F08 F11 F16 F22 F32 F44 F48 F88 F96 F176 F192 F384

VALue
OUTPut:SIGNal:BALanced:LEVel <nu>
OUTPut:SIGNal:LEVel <nu>
OUTPut:SYNC:OUTPut Alias OUTPut:SYNC:FEED Alias OUTPut:SYNC:OUTPut Alias OUTPut:SYNC:FEED ADOutput ADINput AXINput GSYPll JRFPll AXOutput SYINput INTClock | ICLock
OUTPut:TYPE BALanced UNBalanced CTESt
OUTPut:WLENgth Alias OUTPut:WORDlength W16 W24 W32

OUTPut:WOFFset <n>
Alias
OUTPut:WRDOffset <n>
 	
If (OUTPut:WLENgth == W16)
<n> = -16 … 15
If (OUTPut:WLENgth == W24)
<n> = -24 … 23
If (OUTPut:WLENgth == W32)
<n> = -32 … 31

Query only SENSe[1]:FUNCtion:RECord:FLENgth?
Query only

SENSe[1]:FUNCtion:FFT:MTIMe?
Query only SENSe[1]:FUNCtion:FFT: RESolution?
Query only SENSe[1]:FUNCtion:FFT:STOP?
Query only SENSe[1]:FUNCtion:FFT:STARt?
Query only SENSe8:PROTocol:CH<x>:BYTE<y>? <x> and <y> are suffixes <x> = Channel 1 or 2 <y> = Byte 0 … 4 Return value = 0 … 255
Query only DISPlay:*Subsys*<i>:OCURsor:Y?
Query only DISPlay:*Subsys*<i>:XCURsor:Y?
Query only! SENSe[1]:UFILter<i>:STOPb:LOWer? <i> = 1 … 9
Query only! SENSe[1]:UFILter<i>:STOPb:UPPer? <i> = 1 … 9
Query only! SENSe[1]:UFILter<i>:STOPb? <i> = 1 … 9
Query only: TRACe:*Subsys<i>*:LOAD:AX? TRACe:*Subsys<i>*:LOAD:AY? TRACe:*Subsys<i>*:LOAD:BX? TRACe:*Subsys<i>*:LOAD:BY?
Query only:

TRACe:*Subsys*<*i*>:LOAD:COUNt:AX?
TRACe:*Subsys*<*i*>:LOAD:COUNt:AY?
TRACe:*Subsys*<*i*>:LOAD:COUNt:BX?
TRACe:*Subsys*<*i*>:LOAD:COUNt:BY?

Query only:

TRACe:*Subsys*<*i*>:LDList:AX?
TRACe:*Subsys*<*i*>:LDList:AY?
TRACe:*Subsys*<*i*>:LDList:BX?
TRACe:*Subsys*<*i*>:LDList:BY?

Query only:

TRACe:*Subsys*<*i*>:LDList:COUNt:AX?
TRACe:*Subsys*<*i*>:LDList:COUNt:AY?
TRACe:*Subsys*<*i*>:LDList:COUNt:BX?
TRACe:*Subsys*<*i*>:LDList:COUNt:BY?

SENSe:BANDwidth <nu>

SENSe:FREQuency:SQRSin
DIMA
DIMB

SENSe:UFILter<i>:ORDer
N4
N8
<i> = 1 … 9

SENSe[1]:BANDwidth:MODE
PPCT1
PPCT3
POCT12
PTOC
PFAS
PFIX
SPCT1
SPCT3
SOCT12
STOC
SFAS
SFIX

SENSe[1]:CHANnel:DELay <nu>

SENSe[1]:DATA<i>?

Dual channel:

<i> = 1 | 2

Multichannel: (new)
<i> = 1 ... $8^1/16^2$

SENSe[1]:DIGital:JITTer:REFerence
Alias
SENSe[1]:DIGital:REFerence
INTClock | GCLock
REFPll | PLLVari

SENSe[1]:DMODe
Alias
SENSe[1]:FEED
Alias
SENSe[1]:DIGital:FEED
Alias
SENSe[1]:DIGital:MMODe
ADATa
JPHase
CINPut

SENSe[1]:FILTer<i>
OFF
UFIL1
UFIL2
UFIL3
UFIL4
UFIL5
UFIL6
UFIL7
UFIL8
UFIL9
AWE
CARM
CCIU
CCIR
CCIT
CMES
DEMP17
DEMP5015
DEMP50
DEMP75
DCN
IECT
JITT
URUM
WRUM
PEMP17
PEMP5015
PEMP50

PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE <i> = 1, 2 or 3
SENSe[1]:FREQuency <nu>
SENSe[1]:FREQuency:FACTor <nu>
SENSe[1]:FREQuency:LIMit:LOWer <nu>
SENSe[1]:FREQuency:LIMit:UPPer <nu>
SENSe[1]:FREQuency:SELect CW | FIXed MULTisine GENTrack CH1F CH2F AUToboth | AUTOboth
SENSe[1]:FREQuency:SELect CW | FIXed GENTrack CH1Freq CH2Freq AUToboth | AUTOboth Multichannel: SENSe[1]:FREQuency:SELect CW | FIXed GENTrack REFFrequency
SENSe[1]:FUNCtion OFF RMS RMSSelect PEAK QPEak SN DC THD

THDNsndr MDISt DFD DIM POLarity FFT RUBBuzz NOCTave RECord PESQ
SENSe[1]:FUNCtion:APERture:MODE AFASt AUTO TRIGgered GENTrack VALue FAST SFASt SLOW WIDE MEDium NARRow
SENSe[1]:FUNCtion:BARGraph ON OFF
SENSe[1]:FUNCtion:DCSuppression ON OFF
SENSe[1]:FUNCtion:DISTortion<i> ON OFF <i> = 2 … 9 describes harmonics
SENSe[1]:FUNCtion:DMODe FAST PRECision
SENSe[1]:FUNCtion:FFT:AVERage <n> <n> = ~~2…256~~ 1 … 10000
SENSe[1]:FUNCtion:FFT:AVERage:MODE OFF

NORMal EXPonential
SENSe[1]:FUNCtion:FFT:CENTer <nu>
SENSe[1]:FUNCtion:FFT:CMPFactor <n> <n> = 1,2,4,8,16,32,64,128,256,512,1024 1 turns off undersampling. 2,4,8,16,32,64,128,256,512,1024 turn on undersampling. Query: If undersampling is turned off, query returns 1
SENSe[1]:FUNCtion:FFT:Size S512 S1K S2K S4K S8K S16K S32K S64K S128K S256K
SENSe[1]:FUNCtion:FFT:STATe ON OFF
SENSe[1]:FUNCtion:FFT:USAMple ON|OFF
SENSe[1]:FUNCtion:FFT:WINDow RECTangular HANN~~ing~~ BLACkman_harris RIF1 RIF2 RIF3 HAMMing FLATtop
SENSe[1]:FUNCtion:MMODe **Peak** PPEak NPEak PTOPeak PABSolut **SN** RMS

QPEak PPEak NPEak PTOPeak PABSolut **THD** SELectdi LSELectdi DALL LDALl DODD LDODd DEVen LDEVen **THD+N** THDN LTHDn SNDRatio NOISe LNOise **DFD** D2_268 | D2 D3_268 | D3 D2_118 D3_118 **NOCTave** OCT1 OCT3 OCT6 OCT12 OCT24 **PESQ** DUT OFFLine
SENSe[1]:FUNCtion:PESQ:ACCording PP862 PPSI862 | PSILence PPSP862 | PSPeach MP8621 MP8622 MPSI8621 (new) MPSP8621 (new) MPSI8622 (new) MPSP8622 (new)

SENSe[1]:FUNCtion:PESQ:AVGDelay? Query Only
SENSe[1]:FUNCtion:PESQ:DEGLevel? Query Only
SENSe[1]:FUNCtion:PESQ:REFLevel? Query Only
SENSe[1]:FUNCtion:RECord:FILE Alias SENSe[1]:FUNCtion:RECord:FILe 'filename'
SENSe[1]:FUNCtion:RECord:LENGth <nu> <nu> in s
SENSe[1]:FUNCtion:RECord:TRIGger:LEVel <nu>
SENSe[1]:FUNCtion:RECord:TRIGger:PRE <nu> <nu> in s
SENSe[1]:FUNCtion:RECord:TRIGger:SLOPe RISing FALLing
SENSe[1]:FUNCtion:RECord:TRIGger:SOURce CH1 CH2 MANual GENBurst
SENSe[1]:NOTCh DB0 DB12 DB30 OFF
SENSe[1]:NOTCh:FREQuency <nu>
SENSe[1]:NOTCh:FREQuency:MODE VALue GENTrack

SENSe[1]:POWer:REFerence:[MODE:]RESistance <nu>
SENSe[1]:REFerence:MODE CH1Store CH2Store CH1Meas CH2Meas STORe GENTrack VALue Multichannel: (new) VALue MREFchannel GENTrack CH1Store CH2Store CH3Store[1,2] CH4Store[1,2] CH5Store[1,2] CH6Store[1,2] CH7Store[1,2] CH8Store[1,2] CH9Store[2] CH10Store[2] CH11Store[2] CH12Store[2] CH13Store[2] CH14Store[2] CH15Store[2] CH16Store[2] CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.
SENSe[1]:REFerence:MODE2 CH1Store CH2Store CH1Meas CH2Meas STORe GENTrack VALue CH1Store, CH2Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.
SENSe[1]:REFerence[1] <nu>
SENSe[1]:REFerence2 <nu>

SENSe[1]:SWEep:CONTrol OFF ASWeep ALISt ~~MSWeep~~ (new) ~~MLISt~~
SENSe[1]:SWEep:POINts <n>
SENSe[1]:SWEep:SPACing LINSteps LOGSteps LINPoints LOGPoints
SENSe[1]:SWEep:STARt <nu> Alias SENSe[1]:FREQuency:STARt <nu>
SENSe[1]:SWEep:STEP <nu>
SENSe[1]:SWEep:STOP <nu> Alias SENSe[1]:FREQuency:STOP <nu>
SENSe[1]:THDN:REJection NARRow WIDE
SENSe[1]:UFILter<i**>** HPASs LPASs BPASs BSTop BSTOp NOTCh TOCTave OCTave FILE <i> = 1 … 9
SENSe[1]:UFILter<i>:ATTenuation <nu> <i> = 1 … 9
SENSe[1]:UFILter<i>:CENTer <nu> <i> = 1 … 9
SENSe[1]:UFILter<i>:DELay <nu>

<i> = 1 … 9
SENSe[1]:UFILter<i>:FNAMe 'filename' <i> = 1 … 9
SENSe[1]:UFILter<i>:PASSb <nu> <i> = 1 … 9
SENSe[1]:UFILter<i>:PASSb:LOWer <nu> <i> = 1 … 9
SENSe[1]:UFILter<i>:PASSb:UPPer <nu> <i> = 1 … 9
SENSe[1]:UFILter<i>:WIDTh <nu> <i> = 1 … 9
SENSe[1]:UNAuto[1] ON OFF
SENSe[1]:UNAuto2 ON OFF
SENSe[1]:UNIT[1] V DBV :
SENSe[1]:UNIT2 V DBV :
SENSe[1]:USERunit[1] 'Unitstring'
SENSe[1]:USERunit2 'Unitstring'
SENSe[1]:VOLTage:APERture <nu>
SENSe[1]:VOLTage:EQUalize ON OFF
SENSe[1]:VOLTage:FUNDamental <nu>

SENSe[1]:VOLTage:FUNDamental:MODE
AUTO
VALue
GENTrack

SENSe[1]:VOLTage:INTVtime <nu>

SENSe[1]:VOLTage:INTVtime:MODE
SFASt
FAST
SLOW
FIXed
VALue

SENSe[1]:VOLTage:RANGe<i>:MODE
AUTO
FIX
LOWER

Dual channel:
<i> = 1 | 2

Multichannel: (new)
<i> = 1 ... $8^1/16^2$

The following aliases are only used for dual channel measurement.

Alias
SENSe[1]:VOLTage:RANGe[1]:AUTO
SENSe[1]:VOLTage:RANGe2:AUTO
ON
OFF

ON is like
SENSe[1]:VOLTage:RANGe[1]:MODE AUTO

OFF is like
SENSe[1]:VOLTage:RANGe[1]:MODE FIX

SENSe[1]:VOLTage:RANGe<i>:VALue <nu>

Dual channel:
<i> = 1 | 2

Multichannel: (new)
<i> = 1 ... $8^1/16^2$

The following aliases are only used for dual channel measurement.

Alias

SENSe[1]:VOLTage:RANGe[1] <nu>
SENSe[1]:VOLTage:RANGe2 <nu>
Alias
SENSe[1]:VOLTage:RANGe[1]:UPPer <nu>
SENSe[1]:VOLTage:RANGe2:UPPer <nu>
Alias
SENSe[1]:VOLTage:RANGe[1]:LOWer <nu>
SENSe[1]:VOLTage:RANGe2:LOWer <nu>

Queryform:
SENSe[1]:VOLTage:RANGe<i>:VALue?

~~The query answer is the related range:~~
(new)
The query answer is the value of the range in volt without unit:

Dual channel:

18MV:	~~"<0.0 ... 0.01979V>"~~	0.018
30mV:	~~"<0.0198 ... 0.03299V>"~~	0.03
60mV:	~~"<0.033 ... 0.06599V>"~~	0.06
100mV:	~~"<0.066 ... 0.10999V>"~~	0.1
180mV:	~~"<0.11 ... 0.19799V>"~~	0.18
300mV:	~~"<0.198 ... 0.32999V>"~~	0.3
600mV:	~~"<0.33 ... 0.65999V>"~~	0.6
1000mV:	~~"<0.66 ... 1.09999V>"~~	1
1800mV:	~~"<1.1 ... 1.97999V>"~~	1.8
3V:	~~"<1.98 ... 3.29999V>"~~	3
6V:	~~"<3.3 ... 6.59999V>"~~	6
10V:	~~"<6.6 ... 10.9999V>"~~	10
18V:	~~"<11.0 ... 19.7999V>"~~	18
30V:	~~"<19.8 ... 32.9999V>"~~	30
60V:	~~"<33.0 ... 65.9999V>"~~	60
100V:	~~"<66.0 ... 110.0 V>"~~	100

Multichannel (new)

200mV:	~~"<0.00 ... 0.21999V>"~~	0.2
800mV:	~~"<0.22 ... 0.87999V>"~~	0.8
3V:	~~"<0.88 ... 3.29999V>"~~	3
12V:	~~"<3.3 ... 13.19999V>"~~	12
50V:	~~"<13.2 ... 55.00V>"~~	50

~~The UPV did not understand these query answers as commands.~~

SENSe2:DATA<i>?

Dual channel:
<i> = 1 | 2

Multichannel: (new)
<i> = 1 ... 8[1]/16[2]

SENSe2:FUNCtion
OFF
IPEAk | IPEAK
PHASetoref
DIGinpampl

SENSe2:REFerence <nu>

SENSe2:REFerence:MODE
CH1Store
CH2Store
STORe
CH1Meas
CH2Meas
GENTrack
DIGoutampl
VALue

Multichannel:
VALue
MREFchannel (new)
GENTrack
CH1Store
CH2Store
CH3Store[1,2]
CH4Store[1,2]
CH5Store[1,2]
CH6Store[1,2]
CH7Store[1,2]
CH8Store[1,2]
CH9Store[2]
CH10Store[2]
CH11Store[2]
CH12Store[2]
CH13Store[2]
CH14Store[2]
CH15Store[2]
CH16Store[2]

CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.

SENSe2:UNAuto[1]
ON
OFF

SENSe2:UNAuto2
ON

OFF
SENSe2:UNIT[1] BITS DBFS DBM DBR DBU DBUI DBV DEGFRM DPCT DPCTV DPCTW DV DW FS LSBS NS PCTFRM PCTFS PCTPPR PCTUI PCTVVR PPMUI PPR UI UIR UIS V VVR W
SENSe2:UNIT2 V DBV DBR FS :
SENSe2:USERunit[1] 'Unitstring'
SENSe2:USERunit2 'Unitstring'
SENSe3:DATA<i>? Dual channel: <i> = 1 | 2 Multichannel: (new)

<i> = 1 ... 8[1]/16[2]

SENSe3:FREQuency:APERture:MODE
FAST
PRECision

SENSe3:FREQuency:REFerence <nu>

SENSe3:FREQuency:REFerence:MODE
CH1Store
CH2Store
CH1Meas
CH2Meas
STORe
GENTrack
VALue

Multichannel:
SENSe3:REFerence:MODE[1]
VALue
MREFchannel (new)
GENTrack
CH1Store
CH2Store
CH3Store[1,2]
CH4Store[1,2]
CH5Store[1,2]
CH6Store[1,2]
CH7Store[1,2]
CH8Store[1,2]
CH9Store[2]
CH10Store[2]
CH11Store[2]
CH12Store[2]
CH13Store[2]
CH14Store[2]
CH15Store[2]
CH16Store[2]

CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.

SENSe3:FREQuency:UNAuto[1]
ON
OFF

SENSe3:FREQuency:UNAuto2
ON
OFF

SENSe3:FREQuency:UNIT[1]

HZ DHZ DPCTHZ TERZ OCT DEC FFR
SENSe3:FREQuency:UNIT2 HZ DHZ DPCTHZ TERZ OCT DEC FFR
SENSe3:FREquency:USERunit[1] 'Unitstring'
SENSe3:FREquency:USERunit2 'Unitstring'
SENSe3:FUNCtion OFF FREQuency FQPHase FQGRoupdelay FQSamplefrequency SFRequency
SENSe3:GROupdelay:REFerence <nu> = 0 … 10 s
SENSe3:PHASe:FORMat POSitive POSNegative NEGative RAD RADBipolar RADNegative INFinite
SENSe3:PHASe:REFerence <nu> -360° ...+360° -6.32832 … +6.32832 RAD
SENSe3:PHASe:REFerence:MODE STORe VALue

GENTrack (new) Multichannel: (new) VALue GENTrack STORe is an action, the internal state is VALue, so the query answer is always VALue.
SENSe3:PHASe:UNAuto ON OFF
SENSe3:PHASe:UNIT DEG RAD DDEG DRAD S DS
SENSe3:PHASe:USERunit 'Unitstring'
SENSe4:DATA?
SENSe5:FUNCtion OFF ON
SENSe6:DATA<i>? Dual channel: <i> = 1 | 2 Multichannel: (new) <i> = 1 ... $8^1/16^2$
SENSe6:FUNCtion OFF LRMS DC PEAK
SENSe6:REFerence <nu>
SENSe6:REFerence:MODE CH1Store CH2Store STORe

CH1Meas
CH2Meas
GENTrack
VALue

Multichannel:
VALue
MREFchannel (new)
GENTrack
CH1Store
CH2Store
CH3Store[1,2]
CH4Store[1,2]
CH5Store[1,2]
CH6Store[1,2]
CH7Store[1,2]
CH8Store[1,2]
CH9Store[2]
CH10Store[2]
CH11Store[2]
CH12Store[2]
CH13Store[2]
CH14Store[2]
CH15Store[2]
CH16Store[2]

CH1Store … CH16Store and STORe are actions, afterwards the internal state is VALue, so the query answer is VALue.

SENSe6:UNAuto[1]
ON
OFF

SENSe6:UNAuto2
ON
OFF

SENSe6:UNIT[1]

SENSe6:UNIT2

SENSe6:USERunit[1] 'Unitstring'

SENSe6:USERunit2 'Unitstring'

SENSe7:CMPFactor <n>
Alias
SENSe7:COMPression <n>
Alias

SENSe7:WAVeform:COMPression <n>
SENSe7:FUNCtion OFF ON
SENSe7:INTerpol N1 N2 N4 N8 N16 N32
SENSe7:MMODe STANdard COMPressed USAMple
SENSe7:TRIGger:AUTO Alias SENSe7:TRIGger:AUTo ON OFF
SENSe7:TRIGger:LEVel <nu>
SENSe7:TRIGger:PRE <nu>
SENSe7:TRIGger:SLOPe RISing FALLing
SENSe7:TRIGger:SOURce CH1 CH2 MANual GENBurst
SENSe7:TRIGger:TRCLength <nu>
SENSe8:FUNCtion OFF ON
SENSe8:PROTocol:DISPlay ON

OFF
SENSe8:PROTocol:ERRor? Query only Answer: 0,"No error" or <n>,"PCM1,PCM2,PAR1,PAR2,…" <n> represents 10 Bits (d0 … d9) <n> = 0 … 1023 d0: PCM1 d1: PCM2 d2: PAR1 d3: PAR2 d4: LOC1 d5: LOC2 d6: CRC1 d7: CRC2 d8: INV1 d9: INV2
SENSe8:PROTocol:HIGHlight NOTHing FOUTput BETWeen FSTart
SENSe8:PROTocol:MODE AUTomatic | AUTOmatic CONSumer PROFessional
SENSe8:PROTocol:PERSistence SHORt LONG FOREver
SENSe8:PROTocol:VIEW BINText BINonly
SOURce:AM:MODE OFF SINusoid BURSt

SOURce:BANDwidth F30 F100
SOURce:DIGital:FRAMephase <nu>
SOURce:DIGital:PHASetorefvar OFF VALue
SOURce:DIGital:REFerence AZERo AONE
SOURce:DIM DIMA DIMB DIMS
SOURce:FILTer OFF UFIL1 UFIL2 UFIL3 UFIL4 UFIL5 UFIL6 UFIL7 UFIL8 UFIL9 AWE CARM CCIU CCIR CCIT CMES DCN DEMP17 DEMP5015 DEMP50 DEMP75 IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50

PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE
SOURce:FREQuency:AM <nu>
SOURce:FREQuency:CH2Stereo <nu>
SOURce:FREQuency:DIFFerence <nu>
SOURce:FREQuency:MEAN <nu>
SOURce:FREQuency:REFerence <nu>
SOURce:FREQuency:SELect FQPH FQFQ
SOURce:FREQuency[1] [:CW|FIXed] <nu>
SOURce:FREQuency<i>[:CW|FIXed] <nu> <i> = 3 … 32
SOURce:FREQuency2[:CW|FIXed] <nu>
SOURce:FUNCtion[:SHAPe] SINusoid STEReo MULTisine BURSt S2Pulse MDISt DFD DIM RANDom ARBitrary POLarity MODulation | FM DC PLAY PLYAnlr | O131

SOURce:IMPairment ON OFF
SOURce:INTerval <nu>
SOURce:LOOP:CHANnel OFF CH1 CH2 STEReo CROSsed
SOURce:LOOP:GAIN <nu> <nu> in MLT | DB
SOURce:LOWDistortion ON OFF
SOURce:MULTisine:COUNt <n>
SOURce:ONTime <nu>
SOURce:ONTime:DELay <nu>
SOURce:PHASe[<i>] <i> = 1 ... 32 <nu> = 0 ... 360 °
SOURce:PLAY:CHANnel MLEFt MRIGht STEReo
SOURce:PLAY:MODE TOCont TOSingle TICont TISingle
SOURce:PLAY:SCALepktofs ON OFF

SOURce:PLAY:TIME <nu>
SOURce:PROTocol:AZERo ONCE Query answer is always OFF
SOURce:PROTocol:CH<x>:BYTE<y> <n> <x> and <y> are suffixes <x> = CHannel 1 or 2 <y> = Byte 0 … 3 <n> = Value 0 … 255
SOURce:PROTocol:CHANnels CH2Is1 SPLit
SOURce:PROTocol:CRC ON OFF
SOURce:PROTocol:MODE PROFessional CONSumer
SOURce:PROTocol:NUMerical:BYTe <n> <n> = 0 … 3
SOURce:PROTocol:NUMerical:CH <n> <n> = 1 | 2
SOURce:PROTocol:NUMerical:VALue <n> <n> = 0 … 255
SOURce:PROTocol:VALidity NONE CH1And2
SOURce:RANDom:DOMain FREQuency TIME

SOURce:RANDom:FREQuency:LOWer <nu>
SOURce:RANDom:FREQuency:UPPer <nu>
SOURce:RANDom:PDF GAUSsian TRIangle RECTangle
SOURce:RANDom:SHAPe WHITe PINK TOCTave FILE | ARBitrary (new)
SOURce:RANDom:SPACing:FREQuency <nu>
SOURce:RANDom:SPACing:MODE ATRack USERdefined
SOURce:SINusoid:DITHer <nu>
SOURce:SINusoid:DITHer:STATe ON OFF
SOURce:SRCMode Alias SOURce:DIGital:SRCMode Alias SOURce:DIGital:FEED ~~ADATa~~ (new) JITTer COMMon
SOURce:SWEep:CONTrol OFF ASWeep ALISt MSWeep MLISt
SOURce:SWEep:DWELl <nu> <nu> = 10 ms ... 1000 s
SOURce:SWEep:FREQuency: SPACing

LINSteps LOGSteps LINPoints LOGPoints
SOURce:SWEep:FREQuency:POINts <n>
SOURce:SWEep:FREQuency:STARt <nu>
SOURce:SWEep:FREQuency:STEP <nu>
SOURce:SWEep:FREQuency:STOP <nu>
SOURce:SWEep:INTerval: SPACing LINSteps LOGSteps LINPoints LOGPoints
SOURce:SWEep:INTerval:POINts <n>
SOURce:SWEep:INTerval:STARt <nu>
SOURce:SWEep:INTerval:STEP <nu>
SOURce:SWEep:INTerval:STOP <nu>
SOURce:SWEep:NEXTstep DWELI ASYNc LIST
SOURce:SWEep:ONTime: SPACing LINSteps LOGSteps LINPoints LOGPoints
SOURce:SWEep:ONTime:POINts <n>
SOURce:SWEep:ONTime:STARt <nu>
SOURce:SWEep:ONTime:STEP <nu>
SOURce:SWEep:ONTime:STOP <nu>

SOURce:SWEep:PHASe: SPACing LINSteps LOGSteps LINPoints LOGPoints
SOURce:SWEep:PHASe:POINts <n>
SOURce:SWEep:PHASe:STEP <nu>
SOURce:SWEep:PHASe:STOP <nu>
SOURce:SWEep:PHASe:STOP <nu>
SOURce:SWEep:VOLTage: SPACing LINSteps LOGSteps LINPoints LOGPoints
SOURce:SWEep:VOLTage:POINts <n>
SOURce:SWEep:VOLTage:STARt <nu>
SOURce:SWEep:VOLTage:STEP <nu>
SOURce:SWEep:VOLTage:STOP <nu>
SOURce:SWEep:XAXis FREQuency VOLTage ONTIme INTerval
SOURce:SWEep:ZAXis OFF FREQuency VOLTage ONTIme INTerval
SOURce:SYNC:TO Alias SOURce:SYNC:SOURce Alias

SOURce:DIGital:SYNC:TO Alias SOURce:DIGital:SYNC:SOURce **For Digital Audio:** INTClock | GCLock AINPut AUXinput | RINPut SINPut SINVinput **For I2S Board:** INTern EXTMasterclock EXTWordclock
SOURce:VOLTage:AM <nu> <nu> in PCT (%)
SOURce:VOLTage:CH2Stereo <nu>
SOURce:VOLTage:CREStfactor <nu>
SOURce:VOLTage:CREStfactor:MODE MINimized DPHase VALue
SOURce:VOLTage:EQUalize:STATe ON OFF
SOURce:VOLTage:LOWLevel <nu>
SOURce:VOLTage:MAXimum <nu> Alias SOURce:VOLTage:LIMit <nu>
SOURce:VOLTage:OFFSet <nu>
SOURce:VOLTage:OFFSet:STATe ON OFF
SOURce:VOLTage:RANGe AUTO

FIX
SOURce:VOLTage:RATio <n>
SOURce:VOLTage:REFerence <nu>
SOURce:VOLTage:RMS <nu>
SOURce:VOLTage:SELect VLRT VLVL
SOURce:VOLTage:TOTal <nu>
SOURce:VOLTage:TOTal:GAIN <nu> <nu> in dB
SOURce:VOLTage[1] <nu> Basic unit V or FS with Modulation %
SOURce:VOLTage<i> <nu> <i> = 3 … 32 Basic unit V or FS with Modulation %
SOURce:VOLTage2 <nu> Basic unit V or FS with Modulation %
STATus:OPERation? Alias STATus:OPERation:EVENt? STATus:OPERation:CONDition? STATus:OPERation:ENABle <n> STATus:OPERation:PTRansition <n> STATus:OPERation:NTRansition <n> STATus:QUEStionable? Alias STATus:QUEStionable:EVENt? STATus:QUEStionable:CONDition? STATus:QUEStionable:ENABle <n> STATus:QUEStionable:PTRansition <n> STATus:QUEStionable:NTRansition <n> STATus:XQUEstionable? Alias

STATus:XQUEstionable:EVENt?
STATus:XQUEstionable:CONDition?
STATus:XQUEstionable:ENABle <n>
STATus:XQUEstionable:PTRansition <n>
STATus:XQUEstionable:NTRansition <n>

(new)
STATus:QUEStionable:MEASuring?
Alias
STATus:QUEStionable:MEASuring:EVENt?
STATus:QUEStionable:MEASuring:CONDition?
STATus:QUEStionable:MEASuring:ENABle <n>
STATus:QUEStionable:MEASuring:PTRansition <n>
STATus:QUEStionable:MEASuring:NTRansition <n>

STATus:QUEStionable:OVERrange?
Alias
STATus:QUEStionable:OVERrange:EVENt?
STATus:QUEStionable:OVERrange:CONDition?
STATus:QUEStionable:OVERrange:ENABle <n>
STATus:QUEStionable:OVERrange:PTRansition <n>
STATus:QUEStionable:OVERrange:NTRansition <n>

STATus:QUEStionable:UNDerrange?
Alias
STATus:QUEStionable:UNDerrange:EVENt?
STATus:QUEStionable:UNDerrange:CONDition?
STATus:QUEStionable:UNDerrange:ENABle <n>
STATus:QUEStionable:UNDerrange:PTRansition <n>
STATus:QUEStionable:UNDerrange:NTRansition <n>

UNDerrange alias UNDERrange
<n> = Unsigned Integer 0 … 65535

STATus:QUEue:NEXT
STATus:PRESet

SWITcher:INPA <n>
Alias
SWITcher:INPut[1] <n>

SWITcher:INPB <n>
Alias
SWITcher:INPut2 <n>

SWITcher:OFFSet:BVSA <n>
Alias
SWITcher:OFFSet:CH2V <n>

SWITcher:OFFSet:OVSI <n>
Alias
SWITcher:OVI <n>

SWITcher:OUTA <n>
Alias
SWITcher:OUTPut[1] <n>

SWITcher:OUTB <n> Alias SWITcher:OUTPut2 <n>
SWITcher:STATe ON OFF
SWITcher:TRACking OFF BVSA | CH2V OVSI | OVI ALL
SYSTem:COMMunicate:GPIB:ADDRess <n> <n> = 0 … 31
SYSTem:DISPlay:EXPLanation<i>:HIDE <i> = 1…10
SYSTem:DISPlay:EXPLanation<i>:SHOW “x=0,y=10,w=200,h=100” <i> = 1…10
SYSTem:DISPlay:EXPLanation<i>:TEXT "<RTF-Text>" <i> = 1…10
SYSTem:DISPlay:SCPIUpdate Alias SYSTem:DISPlay:SCPiupdate OFF ON
SYSTem:LANGuage Alias SYSTem:HELP:LANGuage ENGLish GERMan
SYSTem:MEMory:DATA<i> <x> <x> may be a set of ASCII data <n,n, ….. ,n,n> or a set of binary data #<LengthofLength><Length><Binary data as

float> <i> = 1 … 16
SYSTem:MEMory:FREE STRing TRACe No Query
SYSTem:MEMory:STRing<i> "String" <i> = 1 … 1024 Stringlength max. 540 Byte
SYSTem:PROFile:CLIPboard 'Filename'
SYSTem:PROFile:FILE 'Filename'
SYSTem:PROFile:PRINter 'Filename'
SYSTem:PROFile:SCReen 'Filename'
SYSTem:PROGramm:EXECute 'xxx.exe'
SYSTem:QLONg OFF ON
SYSTem:SHUtdown SYSTem:SHUtdown <nu> Alias SYSTem:SHTDown SYSTem:SHTDown <nu> No Query
TRACe:SWE<i>:STORe:AX <x> TRACe:*Subsys<i>*:STORe:AY <x> TRACe:SWE<i>:STORe:BX <x> TRACe:*Subsys<i>*:STORe:BY <x> <x> may be a set of ASCII data <n,n, ….. ,n,n> or a set of binary data #<LengthofLength><Length><Binary data as float> AX and BX only for SWEep Subsystem!

To manipulate a sweep axis, it is strictly recommended to set the X-Source to "Manual"

No Query.
Query replacement is the command
TRACe:*Subsys<i>*:LOAD:AX|AY|BX|BY?

TRIGger:CHANnel (new)
OFF
CH1
CH2
CH3[1,2]
CH4[1,2]
CH5[1,2]
CH6[1,2]
CH7[1,2]
CH8[1,2]
CH9[2]
CH10[2]
CH11[2]
CH12[2]
CH13[2]
CH14[2]
CH15[2]
CH16[2]

TRIGger:SOURce
AUTO | AUTo | IMMediate
TIMer
TCHart
CH1Freq
CH2Freq
CH1Rapidfreq
CH2Rapidfreq
CH1Level
CH2Level
CH1Trigger
CH2Trigger
CH1Edgetrigger
CH2Edgetrigger

Multichannel:
TRIGger:SOURce
AUTO
TIMer
FREQuency
RAPidfreq
LEVel
TRIGger
EDGetrigger

Footnotes:
[1]: One Option Analog 8 Channels (UPV-B48)
[2]: Option Analog 8 Channels (UPV-B48) used twice for 16 channel measurement