

6.2 Command List

The APS-1102A command list is shown in **Table6-1** to **Table6-9** and IEEE488.2 common commands supported by the APS-1102A are listed in **Table6-11**.

The symbols used in **Table6-1** to **Table6-11** are explained below. The lowercase letters in each keyword can be omitted.

- Square brackets indicate keywords that can be omitted. (Implicit keywords)
- A vertical bar (|) indicates that one of several keywords is selected.

Table6-1. Command List (SOURCE Subsystem)(1/2)

Function	Command
RMS current limiter	[SOURCE:]CURRENT:LIMIT:RMS
Average current limiter	[SOURCE:]CURRENT:LIMIT:AVERAGE ^{Note}
Peak current limiter (positive)	[SOURCE:]CURRENT:LIMIT:PEAK:HIGH
Peak current limiter (negative)	[SOURCE:]CURRENT:LIMIT:PEAK:LOW
Output frequency	[SOURCE:]FREQUENCY[:IMMEDIATE]
Frequency upper limit setting limit	[SOURCE:]FREQUENCY:LIMIT:HIGH
Frequency lower limit setting limit	[SOURCE:]FREQUENCY:LIMIT:LOW
Output waveform	[SOURCE:]FUNCTION[:SHAPE][:IMMEDIATE]
Output mode	[SOURCE:]MODE
Sync signal source (external synchronization mode)	[SOURCE:]PHASE:CLOCK
Phase when output is started	[SOURCE:]PHASE[:IMMEDIATE]
Sequence status	[SOURCE:]SEQUENCE:CONDITION?
Step number during execution	[SOURCE:]SEQUENCE:CSTEP?
Maximum number of steps in sequence	[SOURCE:]SEQUENCE:LEN?
Jump number of times in step specified by SEQ:STEP command	[SOURCE:]SEQUENCE:COUNT?
Clear sequence memory	[SOURCE:]SEQUENCE:DELETE
Step execution parameter	[SOURCE:]SEQUENCE:EPARAMETER
Step transition parameter	[SOURCE:]SEQUENCE:TPARAMETER
Target step number for sequence editing	[SOURCE:]SEQUENCE:STEP
AC output voltage	[SOURCE:]VOLTAGE[:LEVEL][:IMMEDIATE][:AMPLITUDE]
Output voltage upper limit setting limit	[SOURCE:]VOLTAGE:LIMIT:HIGH
Output voltage lower limit setting limit	[SOURCE:]VOLTAGE:LIMIT:LOW
DC output voltage (during AC+DC-INT, AC+DC-ADD, or AC+DC-SYNC mode)	[SOURCE:]VOLTAGE:OFFSET[:IMMEDIATE]

Note This command is compatible with APS-1102.

( See "■[SOURCE:]CURRENT:LIMIT:AVERAGE" on page 6-19.)

Table6-2. Command List (SOURce Subsystem)(2/2)

Function	Command
DC offset voltage adjustment (during AC-INT, AC-ADD, or AC-SYNC mode)	[SOURce:]VOLTage:ADJust:OFFSet:AC
DC offset voltage adjustment (during AC+DC-INT, AC+DC-ADD, or AC+DC-SYNC mode)	[SOURce:]VOLTage:ADJust:OFFSet:DC
Output voltage range	[SOURce:]VOLTage:RANGe

Table6-3. Command List (MEASure Subsystem)

Function	Command
Output current RMS value	MEASure[:SCALar]:CURRent[:AC]?
Maximum current value	MEASure[:SCALar]:CURRent:HIGH?
Minimum current value	MEASure[:SCALar]:CURRent:LOW?
Output current peak value hold	MEASure[:SCALar]:CURRent:AMPLitude:MAX?
Output current peak value hold reset	MEASure[:SCALar]:CURRent:AMPLitude:RESet?
Output current average value	MEASure[:SCALar]:CURRent:AVERage?
Load crest factor	MEASure[:SCALar]:CURRent:CREStfactor?
Output harmonic current [Arms]	MEASure[:SCALar]:CURRent:HARMonic[:AMPLitude]?
Output harmonic current [%]	MEASure[:SCALar]:CURRent:HARMonic:RATio?
External input signal frequency	MEASure[:SCALar]:FREQuency?
Apparent power	MEASure[:SCALar]:POWer:AC:APParent?
Output power factor	MEASure[:SCALar]:POWer:AC:PFACtor?
Reactive power	MEASure[:SCALar]:POWer:AC:REACtive?
Effective power	MEASure[:SCALar]:POWer:AC[:REAL]?
Output voltage RMS value	MEASure[:SCALar]:VOLTage[:AC]?
Maximum voltage value	MEASure[:SCALar]:VOLTage:HIGH?
Minimum voltage value	MEASure[:SCALar]:VOLTage:LOW?
Output voltage average value	MEASure[:SCALar]:VOLTage:AVERage?

Table6-4. Command List (DISPlay Subsystem)

Function	Command
Select measurement display	DISPlay[:WINDow]:MEASure:MODE

Table6-5. Command List (STATus Subsystem)

Function	Command
Operation condition register	STATus:OPERation:CONDition?
Operation event enable register	STATus:OPERation:ENABle
Operation event register	STATus:OPERation[:EVENT]?
Operation transition filter	STATus:OPERation:NTRansition
	STATus:OPERation:PTRansition
Warning event condition register	STATus:WARNing:CONDition?
Warning event enable register	STATus:WARNing:ENABle
Warning event register	STATus:WARNing[:EVENT]?
Warning event transition filter	STATus:WARNing:NTRansition
	STATus:WARNing:PTRansition

Table6-6. Command List (OUTPut Subsystem)

Function	Command
Output on/off	OUTPut[:STATe]

Table6-7. Command List (INPut Subsystem)

Function	Command
External input gain	INPut:GAIN

Table6-8. Command List (TRACe Subsystem)

Function	Command
Arbitrary waveform name list	TRACe:CATalog?
Send/receive arbitrary waveform data	TRACe[:DATA]
Clear arbitrary waveform memory	TRACe:DELEte:[NAME]

Table6-9. Command List (SYSTEM Subsystem)

Function	Command
Beep sound on/off	SYSTEM:BEEPer:STATe
External control input enable/disable	SYSTEM:CONFigure:EXTIO
Error query	SYSTEM:ERRor?
Output at power-on	SYSTEM:PON[:OUTPut]
Time unit for sequence step execution	SYSTEM:TUNit
Clear warning	SYSTEM:WRELease

Table6-10. Command List (PROGRAM Subsystem)

Function	Command
Sequence operation control	PROGAm[:SELEcted]:EXECute

Table6-11. Common Command List (Common Commands and Queries)

Common Commands and Queries	Name	Function
*CLS	Clear command	Clears standard event register, etc.
*ESE	Standard event enable command	Sets standard event enable register.
*ESR?	Standard event register query	Queries standard event register.
*IDN?	Identification query	Queries device ID information.
*OPC	Operation complete command	When device operation is completed, the standard event register operation complete message (OPC) is generated.
*RCL	Recall command	Reads contents of specified setting memory.
*RST	Reset command	Executes device reset. *In this device, the processing that is performed is similar to initializing the setting memory.
*SAV	Store command	Saves contents of specified setting memory.
*SRE	Service request enable command	Queries settings in the service request enable register.
*STB?	Read status byte query	Queries status byte and master summary status bit.
*TST?	Self test query	Executes auto test of device and returns the results. *For this device, "0" is always returned.
*WAI	Wait to continue command	Sets device in wait mode until all operations are completed.