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<u>DGCH</u>	MSO	Sets and gets MSO source status.
<u>DGST</u>	MSO	Sets and gets MSO function status.
<u>DGTH</u>	MSO	Sets and gets MSO threshold level.
<u>ARWV</u>	AWG	Sets base wave type.
<u>PROD?</u>	AWG	Gets the product model or the AWG upper limit of the frequency.
<u>STL?</u>	AWG	Gets waveform storage list.
<u>WGEN</u>	AWG	Sets and gets the basic waveform parameter values.
<u>WVPR</u>	AWG	Gets waveform location, name, frequency, amplitude, offset data. Sets the name of four arbitrary wave, frequency, amplitude, offset data.

MSO

DGCH

Command /Query

DESCRIPTION

Sets and gets MSO source status.

COMMAND SYNTAX

<SOURCE>:DGCH <STATUS>

<SOURCE> = {D0,D1,D2,D3,D4,D5,D6,D7,D8,
D9,D10,D11,D12,D13,D14,D15}

< STATUS > = {ON,OFF}

QUERY SYNTAX

<SOURCE>:DGCH?

<SOURCE> = {D0,D1,D2,D3,D4,D5,D6,D7,D8,
D9,D10,D11,D12,D13,D14,D15}

EXAMPLE

When MSO D0 is opening

Command message:

D0: DGCH?

Response message:

D0:DGCH ON

MSO

DGST

Command /Query

DESCRIPTION

Sets and gets MSO function status.

COMMAND SYNTAX

DGST <STATUS>

< STATUS > = {ON,OFF}

QUERY SYNTAX

DGST?

EXAMPLE

Sending the following code will let the oscilloscope turn on the MSO switch.

Command message:

GDST ON

DESCRIPTION

Sets and gets MSO threshold level.

COMMAND SYNTAX

DGTH <INDEX>,<THRESHOLD>

Or <SOURCE>: DGTH <INDEX>,
<THRESHOLD>

<SOURCE> = {C1,C2}

< INDEX > = { TTL,CMOS,CMOS3.3,
CMOS2.5,CUSTOM }

<THRESHOLD> = -3 to +3(V)

Tip1: Only "CUSTOM" have "THRESHOLD"

Tip2:source C1 is mean D0-D7;

source C2 is mean D8-D15

Tip3:if without SOURCE, it means SOURCE is
D0-D7

QUERY SYNTAX

DGTH?

Or <SOURCE>: DGTH?

<SOURCE> = {C1,C2}

EXAMPLE1

Set threshold is COMS

Command message:

DGTH CMOS

EXAMPLE2

Set threshold is CUSTOM, level is 1V

Command message:

DGTH CUSTOM,1

AWG

ARWV Command

DESCRIPTION **COMMAND SYNTAX**

Sets base wave type.
ARWV INDEX,<NUM>

<NUM> := {0,1,2,3,4,5,6,7,8,9}

EXAMPLE

ARWV INDEX,0

AWG

PROD Query

DESCRIPTION

Gets the product model or the AWG upper limit of the frequency.

QUERY SYNTAX

PROD? <INDEX>

< INDEX > = {MODEL,BAND}

EXAMPLE

Command message:
PROD? MODEL

Response message:
PROD MODEL,SDS2000x

AWG

STL Query

DESCRIPTION

Gets waveform storage list.

QUERY SYNTAX

STL? <INDEX>

< INDEX > = { DEBUG,RELEASE}

EXAMPLE

Command message:
STL? DEBUG

Response message:
STL
M0,SINE,M1,NOISE,M2,CARDIAC,M3,GA
US_PULSE,M4,EXP_RISE,M5,
EXP_FALL,M6,SIGLENT,M7,EMPTY,M8,E
MPTY,M9,EMPTY

AWG

WGEN Command /Query

DESCRIPTION

Sets and gets the basic waveform parameter values.

COMMAND SYNTAX

WGEN OUTP,<STATE>,WVTP,<WAVE>,
FREA,<FRE>,AMPL,<AMP>,OFST,<OFSET>,
DCOFST,<DCOFSET>,DUTY,<DUT>,
SYMM,<SYM>,WIDTH,<WID>,STDEV,<STD>,
MEAN,<MN>,LOAD,<LD>

<STATE> = {ON,OFF}

<WAVE> = {SINE,SQUARE,RAMP,PULSE,DC,
NOISE,CARDIAC,GAUS_PULSE,EXP_RISE,
EXP_FALL,ARB1,ARB2,ARB3,ARB4}

<FRE> = 0.000001 to 25000000 (HZ)

<AMP> = 0.004 to 6(V)

<OFSET> = [-(6 - AMP)/2] to [(6 - AMP)/2](V)

<DCOFSET> = -3 to 3(V)

<DUT> = 20 to 80(%)

<SYM> = 0 to 100(%)

<WID> = 0.000000048 to 0.001(s)

<STD> = 0.0003 to 0.45(V)

<MN> = [-(0.45 - STD)*(20/0.003)] to
[(0.45 - STD)*(20/0.003)]

<LD> = { HZ,50 }

QUERY SYNTAX

WGEN? <INDEX>

<INDEX >={ OUTP,WVTP,FREQ,AMPL,
OFST,DCOFST,DUTY,SYMM,WIDTH,
STDEV,MEAN,LOAD,ALL}

EXAMPLE

When AWG is opening

Command message:
WGEN? OUTP

Response message:
WGEN OUTP,ON

AWG

WVPR

Command /Query

DESCRIPTION

Gets waveform location, name, frequency, amplitude, offset data.

Sets the name of four arbitrary wave, frequency, amplitude, offset data.

COMMAND SYNTAX

WVPR <INDEX>,WVNM,<NAME>,
FREQ,<FREQ>,AMPL,<AMPL>,OFST,<OFST>

<INDEX> = { M0,M1,M2,M3,M4,M5,
M6,M7,M8,M9 }

<NAME> :the arbitrary wave name

<FREQ> = 0.000001 to 5000000(HZ)

<AMPL> = 0.004 to 6(V)

<OFST> = [-(6 - AMPL)/2] to [(6 - AMPL)/2(V)]

QUERY SYNTAX

WVPR? <INDEX>

< INDEX > = { M0,M1,M2,M3,M4,M5,
M6,M7,M8,M9 }

Tip: M6 to M9 is arbitrary wave.

EXAMPLE

Command message:

WVPR? M0

Response message:

WVPR

POS,M0,WVNM,SINE,FREQ,1.000000e+03,
AMPL,6.000000e+00,OFST,
0.000000e+00