

Variables**A / A x**
get / set the variable A, default 1**B / B x**
get / set the variable B, default 2**C / C x**
get / set the variable C, default 3**D / D x**
get / set the variable D, default 4**DRUNK / DRUNK x**
changes by -1, 0, or 1 upon each read saving its state, setting will give it a new value for the next read**DRUNK.MIN / DRUNK.MIN x**
set the lower bound for DRUNK, default 0**DRUNK.MAX / DRUNK.MAX x**
set the upper bound for DRUNK, default 255**DRUNK.WRAP / DRUNK.WRAP x**
should DRUNK wrap around when it reaches its bounds, default 0**FLIP / FLIP x**
returns inverted state (0 or 1) on each read (also settable)**I / I x**
get / set the variable I**O / O x**
auto-increments after each access, can be set, starting value 0**O.INC / O.INC x**
how much to increment 0 by on each invocation, default 1**O.MIN / O.MIN x**
the lower bound for 0, default 0**O.MAX / O.MAX x**
the upper bound for 0, default 63**O.WRAP / O.WRAP x**
should 0 wrap when it reaches its bounds, default 1**T / T x**
get / set the variable T, typically used for time, default 0**TIME / TIME x**
timer value, counts up in ms., wraps after 32s, can be set**TIME.ACT / TIME.ACT x**
enable or disable timer counting, default 1**LAST x**
get value in milliseconds since last script run time**X / X x**
get / set the variable X, default 0**Y / Y x**
get / set the variable Y, default 0**Z / Z x**
get / set the variable Z, default 0**Hardware****CV x / CV x y**
CV target value**CV.OFF x / CV.OFF x y**
CV offset added to output**CV.SET x**
Set CV value**CV.SLEW x / CV.SLEW x y**
Get/set the CV slew time in ms**IN**

Get the value of IN jack (0-16383)

IN.SCALE min max

Set static scaling of the IN CV to between min and max.

PARAM PRM
Get the value of PARAM knob (0-16383)**PARAM.SCALE min max**
Set static scaling of the PARAM knob to between min and max.**IN.CAL.MIN**

Reads the input CV and assigns the voltage to the zero point

IN.CAL.MAX

Reads the input CV and assigns the voltage to the max point

PARAM.CAL.MIN
Reads the Parameter Knob minimum position and assigns a zero value**PARAM.CAL.MAX**
Reads the Parameter Knob maximum position and assigns the maximum point**TR x / TR x y**
Set trigger output x to y (0-1)**TR.POL x / TR.POL x y**
Set polarity of trigger output x to y (0-1)**TR.TIME x / TR.TIME x y**
Set the pulse time of trigger x to y ms**TR.TOG x**
Flip the state of trigger output x**TR.PULSE x TR.P**
Pulse trigger output x**MUTE x / MUTE x y**
Disable trigger input x**STATE x**
Read the current state of input x**Patterns****P.N / P.N x**

get/set the pattern number for the working pattern, default 0

P x / P x y

get/set the value of the working pattern at index x

PN x y / PN x y z

get/set the value of pattern x at index y

P.L / P.L x

get/set pattern length of the working pattern, non-destructive to data

PN.L x / PN.L x y

get/set pattern length of pattern x. non-destructive to data

P.WRAP / P.WRAP x

when the working pattern reaches its bounds does it wrap (0/1), default 1 (enabled)

PN.WRAP x / PN.WRAP x y

when pattern x reaches its bounds does it wrap (0/1), default 1 (enabled)

P.START / P.START x

get/set the start location of the working pattern, default 0

PN.START x / PN.START x y

get/set the start location of pattern x, default 0

P.END / P.END x

get/set the end location of the working pattern, default 63

PN.END x / PN.END x y

get/set the end location of the pattern x, default 63

P.I / P.I x

get/set index position for the working pattern.

PN.I x / PN.I x y

get/set index position for pattern x

P.HERE / P.HERE x

get/set value at current index of working pattern

PN.HERE x / PN.HERE x y

get/set value at current index of pattern x

P.NEXT / P.NEXT x

increment index of working pattern then get/set value

PN.NEXT x / PN.NEXT x y

increment index of pattern x then get/set value

P.PREV / P.PREV x

decrement index of working pattern then get/set value

PN.PREV x / PN.PREV x y

decrement index of pattern x then get/set value

P.INS x y

insert value y at index x of working pattern, shift later values down, destructive to loop length

PN.INS x y z

insert value z at index y of pattern x, shift later values down, destructive to loop length

P.RM x

delete index x of working pattern, shift later values up, destructive to loop length

PN.RM x y

delete index y of pattern x, shift later values up, destructive to loop length

P.PUSH x

insert value x to the end of the working pattern (like a stack), destructive to loop length

PN.PUSH x y

insert value y to the end of pattern x (like a stack), destructive to loop length

P.POP

return and remove the value from the end of the working pattern (like a stack), destructive to loop length

PN.POP x

return and remove the value from the end of pattern x (like a stack), destructive to loop length

P.MIN

find the first minimum value in the pattern between the START and END for the working pattern and return its index

PN.MIN x

find the first minimum value in the pattern between the START and END for pattern x and return its index

P.MAX

find the first maximum value in the pattern between the START and END for the working pattern and return its index

PN.MAX x

find the first maximum value in the pattern between the START and END for pattern x and return its index

P.RND

return a value randomly selected between the start and the end position

PN.RND x

return a value randomly selected between the start and the end position of pattern x

P.+ x y

increase the value of the working pattern at index x by y

PN.+ x y z

increase the value of pattern x at index y by z

P.- x y

decrease the value of the working pattern at index x by y

PN.- x y z

decrease the value of pattern x at index y by z

P.+W x y a b

increase the value of the working pattern at index x by y and wrap it to a..b range

PN.+W x y z a b

increase the value of pattern x at index y by z and wrap it to a..b range

P.-W x y a b

decrease the value of the working pattern at index x by y and wrap it to a..b range

PN.-W x y z a b

decrease the value of pattern x at index y by z and wrap it to a..b range

Control flow**IF x: ...**

if x is not zero execute command

ELIF x: ...

if all previous IF / ELIF fail, and x is not zero, execute command

ELSE: ...

if all previous IF / ELIF fail, execute command

L x y: ...

run the command sequentially with I values from x to y

W x: ...

run the command while condition x is true

EVERY x: ...

run the command every x times the command is called

SKIP x: ...

run the command every time except the xth time.

OTHER: ...

runs the command when the previous EVERY/SKIP did not run its command.

SYNC x

synchronizes all EVERY and SKIP counters to offset x.

PROB x: ...

potentially execute command with probability x (0-100)

SCRIPT / SCRIPT x

get current script number, or execute script x (1-8), recursion allowed

SCENE / SCENE x

get the current scene number, or load scene x (0-31)

KILL

clears stack, clears delays, cancels pulses, cancels slews, disables metronome

BREAK

halts execution of the current script

INIT

clears all state data

G.GBT group id x y w h type level script
initialize button in group
G.BTX id x y w h type level script columns rows
initialize multiple buttons
G.GBX group id x y w h type level script columns rows
initialize multiple buttons in group
G_BTN.EN id / G_BTN.EN id x
enable/disable button or check if enabled
G_BTN.X id / G_BTN.X id x
get/set button x coordinate
G_BTN.Y id / G_BTN.Y id y
get/set button y coordinate
G_BTN.V id / G_BTN.V id value
get/set button value
G_BTN.L id / G_BTN.L id level
get/set button level
G.BTNI
id of last pressed button
G_BTNX / G_BTNX x
get/set x of last pressed button
G_BTNY / G_BTNY y
get/set y of last pressed button
G_BTNV / G_BTNV value
get/set value of last pressed button
G_BTNL / G_BTNL level
get/set level of last pressed button
G_BTN.SW id
switch button
G_BTN.PR id action
emulate button press/release
G.GBTN.V group value
set value for group buttons
G.GBTN.L group odd_level even_level
set level for group buttons
G.GBTN.C group
get count of currently pressed
G.GBTN.I group index
get id of pressed button
G.GBTN.W group
get button block width
G.GBTN.H group
get button block height
G.GBTN.X1 group
get leftmost pressed x
G.GBTN.X2 group
get rightmost pressed x
G.GBTN.Y1 group
get highest pressed y

G.GBTN.Y2 group
get lowest pressed y
G.FDR id x y w h type level script
initialize fader
G.GFD grp id x y w h type level script
initialize fader in group
G.FDX id x y w h type level script columns rows
initialize multiple faders
G.GFX group id x y w h type level script columns rows
initialize multiple faders in group
G.FDR.EN id / G.FDR.EN id x
enable/disable fader or check if enabled
G.FDR.X id / G.FDR.X id x
get/set fader x coordinate
G.FDR.Y id / G.FDR.Y id y
get/set fader y coordinate
G.FDR.N id / G.FDR.N id value
get/set fader value
G.FDR.V id / G.FDR.V id value
get/set scaled fader value
G.FDR.L id / G.FDR.L id level
get/set fader level
G.FDRI
id of last pressed fader
G.FDRX / G.FDRX x
get/set x of last pressed fader
G.FDRY / G.FDRY y
get/set y of last pressed fader
G.FDRN / G.FDRN value
get/set value of last pressed fader
G.FDRV / G.FDRV value
get/set scaled value of last pressed fader
G.FDRL / G.FDRL level
get/set level of last pressed fader
G.FDR.PR id value
emulate fader press
G.GFDR.N group value
set value for group faders
G.GFDR.V group value
set scaled value for group faders
G.GFDR.L group odd_level even_level
set level for group faders
G.GFDR.RN group min max
set range for group faders

Ansible

KR.PRE / KR.PRE x
return current preset / load preset x

KR.PERIOD / KR.PERIOD x
get/set internal clock period

KR.PAT / KR.PAT x
get/set current pattern

KR.SCALE / KR.SCALE x
get/set current scale

KR.POS x y / KR.POS x y z
get/set position z for track z, parameter y

KR.L.ST x y / KR.L.ST x y z
get loop start for track x, parameter y / set to z

KR.L.LEN x y / KR.L.LEN x y z
get length of track x, parameter y / set to z

KR.RES x y
reset position to loop start for track x, parameter y

KR.CV x
get the current CV value for channel x

KR.MUTE x / KR.MUTE x y
get/set mute state for channel x (1 = muted, 0 = unmuted)

KR.TMUTE x
toggle mute state for channel x

KR.CLK x
advance the clock for channel x (channel must have teletype clocking enabled)

ME.PRE / ME.PRE x
return current preset / load preset x

ME.SCALE / ME.SCALE x
get/set current scale

ME.PERIOD / ME.PERIOD x
get/set internal clock period

ME.STOP x
stop channel x (0 = all)

ME.RES x
reset channel x (0 = all), also used as "start"

ME.CV x
get the current CV value for channel x

LV.PRE / LV.PRE x
return current preset / load preset x

LV.RES x
reset, 0 for soft reset (on next ext. clock), 1 for hard reset

LV.POS / LV.POS x
get/set current position

LV.L.ST / LV.L.ST x
get/set loop start

LV.L.LEN / LV.L.LEN x
get/set loop length

LV.L.DIR / LV.L.DIR x

get/set loop direction

LV.CV x

get the current CV value for channel x

CY.PRE / CY.PRE x

return current preset / load preset x

CY.RES x

reset channel x (0 = all)

CY.POS x / CY.POS x y

get / set position of channel x (x = 0 to set all), position between 0-255

CY.REV x

reverse channel x (0 = all)

CY.CV x

get the current CV value for channel x

MID.SLEW t

set pitch slew time in ms (applies to all allocation styles except FIXED)

MID.SHIFT o

shift pitch CV by standard Teletype pitch value (e.g. N 6, V -1, etc)

ARP.HLD h

0 disables key hold mode, other values enable

ARP.STY y

set base arp style [0-7]

ARP.GT v g

set voice gate length [0-127], scaled/synced to course divisions of voice clock

ARP.SLEW v t

set voice slew time in ms

ARP.RPT v n s

set voice pattern repeat, n times [0-8], shifted by s semitones [-24, 24]

ARP.DIV v d

set voice clock divisor (euclidean length), range [1-32]

ARP.FIL v f

set voice euclidean fill, use 1 for straight clock division, range [1-32]

ARP.ROT v r

set voice euclidean rotation, range [-32, 32]

ARP.ER v f d r

set all euclidean rhythm

ARP.RES v

reset voice clock/pattern on next base clock tick

ARP.SHIFT v o

shift voice cv by standard tt pitch value (e.g. N 6, V -1, etc)

Whitewhale

WW.PRESET x

Recall preset (0-7)

WW.POS x

Cut to position (0-15)

WW.SYNC x

Cut to position (0-15) and hard-sync the clock (if clocked internally)

WW.START x

Set the loop start position (0-15)

WW.END x

Set the loop end position (0-15)

WW.PMODE x

Set the loop play mode (0-5)

WW.PATTERN x

Change pattern (0-15)

WW.QPATTERN x

Change pattern (0-15) after current pattern ends

WW.MUTE1 x

Mute trigger 1 (0 = on, 1 = mute)

WW.MUTE2 x

Mute trigger 2 (0 = on, 1 = mute)

WW.MUTE3 x

Mute trigger 3 (0 = on, 1 = mute)

WW.MUTE4 x

Mute trigger 4 (0 = on, 1 = mute)

WW.MUTEA x

Mute CV A (0 = on, 1 = mute)

WW.MUTEB x

Mute CV B (0 = on, 1 = mute)

Meadowphysics

MP.PRESET x

set Meadowphysics to preset x (indexed from 0)

MP.RESET x

reset countdown for channel x (0 = all, 1-8 = individual channels)

MP.STOP x

reset channel x (0 = all, 1-8 = individual channels)

Earthsea

ES.PRESET x

Recall preset x (0-7)

ES.MODE x

Set pattern clock mode. (0=normal, 1=ll clock)

ES.CLOCK x

If ll clocked, next pattern event

ES.RESET x

Reset pattern to start (and start playing)

ES.PATTERN x

Select playing pattern (0-15)

ES.TRANS x

Transpose the current pattern

ES.STOP x

Stop pattern playback.

ES.TRIPLE x

Recall triple shape (1-4)

ES.MAGIC x

Magic shape (1= halfspeed, 2=doublespeed, 3=linearize)

Orca

OR.CLK x

Advance track x (1-4)

OR.RST x

Reset track x (1-4)

OR.GRST x

Global reset (x can be any value)

OR.TRK x

Choose track x (1-4) to be used by OR.DIV, OR.PHASE, OR.WGT or OR.MUTE

OR.DIV x

Set divisor for selected track to x (1-16)

OR.PHASE x

Set phase for selected track to x (0-16)

OR.WGT x

Set weight for selected track to x (1-8)

OR.MUTE x

Mute trigger selected by OR.TRK (0 = on, 1 = mute)

OR.SCALE x

Select scale x (1-16)

OR.BANK x

Select preset bank x (1-8)

OR.PRESET x

Select preset x (1-8)

OR.RELOAD x

Reload preset or bank (0 - current preset, 1 - current bank, 2 - all banks)

OR.ROTS x

Rotate scales by x (1-15)

OR.ROTW x

Rotate weights by x (1-3)

OR.CVA x

Select tracks for CV A where x is a binary number representing the tracks

OR.CVB x

Select tracks for CV B where x is a binary number representing the tracks

Just Friends

JF.TR x y

Simulate a TRIGGER input. x is channel (0 = all) and y is state (0 or 1)

JF.RMODE x

Set the RUN state of Just Friends when no physical jack is present. (0 = run off, non-zero = run on)

JF.RUN x

Send a 'voltage' to the RUN input. Requires JF.RMODE 1 to have been executed, or a physical cable in JF's input. Thus Just Friend's RUN modes are accessible without needing a physical cable & control voltage to set the RUN parameter. use JF.RUN V x to set to x volts. The expected range is V -5 to V 5

JF.SHIFT x

Shifts the transposition of Just Friends, regardless of speed setting. Shifting by V 1 doubles the frequency in sound, or doubles the rate in shape. x = pitch, use N x for semitones, or V y for octaves.

JF.VTR x y

Like JF.TR with added volume control. Velocity is scaled with volts, so try V 5 for an output trigger of 5 volts. Channels remember their latest velocity setting and apply it regardless of TRIGGER origin (digital or physical). x = channel, 0 sets all channels. y = velocity, amplitude of output in volts. eg JF.VTR 1 V 4.

JF.TUNE x y z

Adjust the tuning ratios used by the INTONE control. x = channel, y = numerator (set the multiplier for the tuning ratio), z = denominator (set the divisor for the tuning ratio).

JF.MODE x

Set the current choice of standard functionality, or Just Type alternate modes. You'll likely want to put JF.MODE x in your Teletype INIT scripts. x = nonzero activates alternative modes. 0 restores normal.

JF.VOX x y z

Create a note at the specified channel, of the defined pitch & velocity. All channels can be set simultaneously with a chan value of 0. x = channel, y = pitch relative to C3, z = velocity (like JF.VTR).

JF.NOTE x y

Polyphonically allocated note sequencing. Works as JF.VOX with chan selected automatically. Free voices will be taken first. If all voices are busy, will steal from the voice which has been active the longest. x = pitch relative to C3, y = velocity.

JF.GOD x

Redefines C3 to align with the 'God' note. x = 0 sets A to 440, x = 1 sets A to 432.

JF.TICK x

Sets the underlying timebase of the Geode. x = clock. 0 resets the timebase to the start of measure. 1 to 48 shall be sent repetitively. The value representing ticks per measure. 49 to 255 sets beats-per-minute and resets the timebase to start of measure.

JF.QT x

When non-zero, all events are queued & delayed until the next quantize event occurs. Using values that don't align with the division of rhythmic streams will cause irregular patterns to unfold. Set to 0 to deactivate quantization. x = division, 0 deactivates quantization, 1 to 32 sets the subdivision & activates quantization.

W/

WS.PLAY x

Set playback state and direction. 0 stops playback. 1 sets forward motion, while -1 plays in reverse

WS.REC x

Set recording mode. 0 is playback only. 1 sets overdub mode for additive recording. -1 sets overwrite mode to replace the tape with your input

WS.CUE x

Go to a cuepoint relative to the playhead position. 0 retriggers the current location. 1 jumps to the next cue forward. -1 jumps to the previous cue in the reverse. These actions are relative to playback direction such that 0 always retriggers the most recently passed location

WS.LOOP x

Set the loop state on/off. 0 is off. Any other value turns loop on

ER-301

SC.TR x y

Set trigger output for the ER-301 virtual output x to y (0-1)

SC.TR.POL x y

Set polarity of trigger for the ER-301 virtual output x to y (0-1)

SC.TR.TIME x y

Set the pulse time for the ER-301 virtual trigger x to y in ms

SC.TR.TOG x

Flip the state for the ER-301 virtual trigger output x

SC.TR.PULSE x

SC.TR.P

Pulse the ER-301 virtual trigger output x

SC.CV x y

CV target value for the ER-301 virtual output x to value y

SC.CV.OFF x y

CV offset added to the ER-301 virtual output x

SC.CV.SET x

Set CV value for the ER-301 virtual output x

SC.CV.SLEW x y

Set the CV slew time for the ER-301 virtual output x in ms

Fader

FADER x

FB

reads the value of the FADER slider x; default return range is from 0 to 16383

Matrixarchate

MA.SELECT x

select the default matrixarchate module, default 1

MA.STEP

advance program sequencer

MA.RESET

reset program sequencer

MA.PGM pgm

select the current program (1-based)

MA.ON x y

connect row x and column y in the current program (rows/columns are 0-based)

MA.PON pgm x y

connect row x and column y in program pgm

MA.OFF x y

disconnect row x and column y in the current program

MA.POFF x y pgm

connect row x and column y in program pgm

MA.SET x y state

set the connection at row x and column y to state (1 - on, 0 - off)

MA.PSET pgm x y state

set the connection at row x and column y in program pgm to state (1 - on, 0 - off)

MA.COL col / MA.COL col value

get or set column col (as a 16 bit unsigned value where each bit represents a connection)

MA.PCOL pgm col / MA.PCOL pgm col value

get or set column col in program pgm

MA.ROW row / MA.ROW row value

get or set row row

MA.PROW pgm row / MA.PROW pgm row value

get or set row row in program pgm

MA.CLR

clear all connections

MA.PCLR pgm

clear all connections in program pgm

TELEXI

TI.PARAM x TI.PRM
reads the value of PARAM knob x; default return range is from 0 to 16383; return range can be altered by the TI.PARAM.MAP command

TI.PARAM.QT x TI.PRM.QT
return the quantized value for PARAM knob x using the scale set by TI.PARAM.SCALE; default return range is from 0 to 16383

TI.PARAM.N x TI.PRM.N
return the quantized note number for PARAM knob x using the scale set by TI.PARAM.SCALE

TI.PARAM.SCALE x TI.PRM.SCALE
select scale # y for PARAM knob x; scales listed in full description

TI.PARAM.MAP x y z TI.PRM.MAP
maps the PARAM values for input x across the range y - z (defaults 0-16383)

TI.IN x
reads the value of IN jack x; default return range is from -16384 to 16383 - representing -10V to +10V; return range can be altered by the TI.IN.MAP command

TI.IN.QT x
return the quantized value for IN jack x using the scale set by TI.IN.SCALE; default return range is from -16384 to 16383 - representing -10V to +10V

TI.IN.N x
return the quantized note number for IN jack x using the scale set by TI.IN.SCALE

TI.IN.SCALE x
select scale # y for IN jack x; scales listed in full description

TI.IN.MAP x y z
maps the IN values for input jack x across the range y - z (default range is -16384 to 16383 - representing -10V to +10V)

TI.PARAM.INIT x TI.PRM.INIT
initializes PARAM knob x back to the default boot settings and behaviors; neutralizes mapping (but not calibration)

TI.IN.INIT x
initializes IN jack x back to the default boot settings and behaviors; neutralizes mapping (but not calibration)

TI.INIT d
initializes all of the PARAM and IN inputs for device number d (1-8)

TI.PARAM.CALIB x y TI.PRM.CALIB
calibrates the scaling for PARAM knob x; y of 0 sets the bottom bound; y of 1 sets the top bound

TI.IN.CALIB x y

calibrates the scaling for IN jack x; y of -1 sets the -10V point; y of 0 sets the 0V point; y of 1 sets the +10V point

TI.STORE d

stores the calibration data for TXi number d (1-8) to its internal flash memory

TI.RESET d

resets the calibration data for TXi number d (1-8) to its factory defaults (no calibration)

TELEXO

TO.TR x y

sets the TR value for output x to y (0/1)

TO.TR.TOG x

toggles the TR value for output x

TO.TR.PULSE x TO.TR.P
pulses the TR value for output x for the duration set by TO.TR.TIME/S/M

TO.TR.PULSE.DIV x y TO.TR.P.DIV
sets the clock division factor for TR output x to y

TO.TR.PULSE.MUTE x y TO.TR.P.MUTE
mutes or un-mutes TR output x; y is 1 (mute) or 0 (un-mute)

TO.TR.TIME x y
sets the time for TR.PULSE on output n; y in milliseconds

TO.TR.TIME.S x y
sets the time for TR.PULSE on output n; y in seconds

TO.TR.TIME.M x y
sets the time for TR.PULSE on output n; y in minutes

TO.TR.WIDTH x y
sets the time for TR.PULSE on output n based on the width of its current metronomic value; y in percentage (0-100)

TO.TR.POL x y
sets the polarity for TR output n

TO.TR.M.ACT x y
sets the active status for the independent metronome for output x to y (0/1); default 0 (disabled)

TO.TR.M x y
sets the independent metronome interval for output x to y in milliseconds; default 1000

TO.TR.M.S x y
sets the independent metronome interval for output x to y in seconds; default 1

TO.TR.M.M x y
sets the independent metronome interval for output x to y in minutes

TO.TR.M.BPM x y

sets the independent metronome interval for output x to y in Beats Per Minute

TO.TR.M.COUNT x y

sets the number of repeats before deactivating for output x to y; default 0 (infinity)

TO.TR.M.MUL x y

multiples the M rate on TR output x by y; y defaults to 1 - no multiplication

TO.TR.M SYNC x

synchronizes the PULSE for metronome on TR output number x

TO.M.ACT d y

sets the active status for the 4 independent metronomes on device d (1-8) to y (0/1); default 0 (disabled)

TO.M d y

sets the 4 independent metronome intervals for device d (1-8) to y in milliseconds; default 1000

TO.M.S d y

sets the 4 independent metronome intervals for device d to y in seconds; default 1

TO.M.M d y

sets the 4 independent metronome intervals for device d to y in minutes

TO.M.BPM d y

sets the 4 independent metronome intervals for device d to y in Beats Per Minute

TO.M.COUNT d y

sets the number of repeats before deactivating for the 4 metronomes on device d to y; default 0 (infinity)

TO.M.SYNC d

synchronizes the 4 metronomes for device number d (1-8)

TO.CV x

CV target output x; y values are bipolar (-16384 to +16383) and map to -10 to +10

TO.CV.SLEW x y

set the slew amount for output x; y in milliseconds

TO.CV.SLEW.S x y

set the slew amount for output x; y in seconds

TO.CV.SLEW.M x y

set the slew amount for output x; y in minutes

TO.CV.SET x y

set the CV for output x (ignoring SLEW); y values are bipolar (-16384 to +16383) and map to -10 to +10

TO.CV.OFF x y

set the CV offset for output x; y values are added at the final stage

TO.CV.QT x y

CV target output x; y is quantized to output's current CV.SCALE

TO.CV.QT.SET x y

set the CV for output x (ignoring SLEW); y is quantized to output's current CV.SCALE

TO.CV.N x y

target the CV to note y for output x; y is indexed in the output's current CV.SCALE

TO.CV.N.SET x y

set the CV to note y for output x; y is indexed in the output's current CV.SCALE (ignoring SLEW)

TO.CV.SCALE x y

select scale # y for CV output x; scales listed in full description

TO.CV.LOG x y

translates the output for CV output x to logarithmic mode y; y defaults to 0 (off); mode 1 is for 0-16384 (0V-10V), mode 2 is for 0-8192 (0V-5V), mode 3 is for 0-4096 (0V-2.5V), etc.

TO.CV.CALIB x

Locks the current offset (CV.OFF) as a calibration offset and saves it to persist between power cycles for output x.

TO.CV.RESET x

Clears the calibration offset for output x.

TO.OSC x y

targets oscillation for CV output x to y with the portamento rate determined by the TO.OSC.SLEW value; y is 1v/oct translated from the standard range (1-16384); a value of 0 disables oscillation; CV amplitude is used as the peak for oscillation and needs to be > 0 for it to be perceivable

TO.OSC.SET x y

set oscillation for CV output x to y (ignores CV.OSC.SLEW); y is 1v/oct translated from the standard range (1-16384); a value of 0 disables oscillation; CV amplitude is used as the peak for oscillation and needs to be > 0 for it to be perceivable

TO.OSC.QT x y

targets oscillation for CV output x to y with the portamento rate determined by the TO.OSC.SLEW value; y is 1v/oct translated from the standard range (1-16384) and quantized to current OSC.SCALE; a value of 0 disables oscillation; CV amplitude is used as the peak for oscillation and needs to be > 0 for it to be perceivable

TO.OSC.LFO x y

targets oscillation for CV output x to LFO frequency y with the portamento rate determined by the TO.OSC.SLEW value; y is in Hz; a value of 0 disables oscillation; CV amplitude is used as the peak for oscillation and needs to be > 0 for it to be perceivable

TO.OSC.LFO.SET x y

sets oscillation for CV output x to LFO frequency y (ignores CV.OSC.SLEW); y is in mHz (millihertz: 10^-3 Hz); a value of 0 disables oscillation; CV amplitude is used as the peak for oscillation and needs to be > 0 for it to be perceivable

TO.OSC.CYC x y

targets the oscillator cycle length to y for CV output x with the portamento rate determined by the TO.OSC.SLEW value; y is in milliseconds

TO.OSC.CYC.SET x y

sets the oscillator cycle length to y for CV output x (ignores CV.OSC.SLEW); y is in milliseconds

TO.OSC.CYC.S x y

targets the oscillator cycle length to y for CV output x with the portamento rate determined by the TO.OSC.SLEW value; y is in seconds

TO.OSC.CYC.S.SET x y

sets the oscillator cycle length to y for CV output x (ignores CV.OSC.SLEW); y is in seconds

TO.OSC.CYC.M x y

targets the oscillator cycle length to y for CV output x with the portamento rate determined by the TO.OSC.SLEW value; y is in minutes

TO.OSC.CYC.M.SET x y

sets the oscillator cycle length to y for CV output x (ignores CV.OSC.SLEW); y is in minutes

TO.OSC.SCALE x y

select scale # y for CV output x; scales listed in full description

TO.OSC.WAVE x y

set the waveform for output x to y; y values range 0-4999; values translate to sine (0), triangle (1000), saw (2000), pulse (3000), or noise (4000); oscillator shape between values is a blend of the pure waveforms

TO.OSC.RECT x y

rectifies the polarity of the oscillator for output x to y; range for y is -2 to 2; default is 0 (no rectification); 1 & -1 are partial rectification - omitting all values on the other side of the sign; 2 & -2 are full rectification - inverting values from the other pole

TO.OSC.WIDTH x y

sets the width of the pulse wave on output x to y; y is a percentage of total width (0 to 100); only affects waveform 3000

TO.OSC.SYNC x

resets the phase of the oscillator on CV output x (relative to TO.OSC.PHASE)

TO.OSC.PHASE x y

sets the phase offset of the oscillator on CV output x to y (0 to 16383); y is the range of one cycle

TO.OSC.SLEW x y

sets the frequency slew time (portamento) for the oscillator on CV output x to y; y in milliseconds

TO.OSC.SLEW.S x y

sets the frequency slew time (portamento) for the oscillator on CV output x to y; y in seconds

TO.OSC.SLEW.M x y

sets the frequency slew time (portamento) for the oscillator on CV output x to y; y in minutes

TO.OSC.CTR x y

centers the oscillation on CV output x to y; y values are bipolar (-16384 to +16383) and map to -10 to +10

TO.ENV.ACT x y

activates/deactivates the AD envelope generator for the CV output x; y turns the envelope generator off (0 - default) or on (1); CV amplitude is used as the peak for the envelope and needs to be > 0 for the envelope to be perceivable

TO.ENV x y

This parameter essentially allows output x to act as a gate between the 0 and 1 state. Changing this value from 0 to 1 causes the envelope to trigger the attack phase and hold at the peak CV value; changing this value from 1 to 0 causes the decay stage of the envelope to be triggered.

TO.ENV.TRIG x

triggers the envelope at CV output x to cycle; CV amplitude is used as the peak for the envelope and needs to be > 0 for the envelope to be perceivable

TO.ENV.ATT x y

set the envelope attack time to y for CV output x; y in milliseconds (default 12 ms)

TO.ENV.ATT.S x y

set the envelope attack time to y for CV output x; y in seconds

TO.ENV.ATT.M x y

set the envelope attack time to y for CV output x; y in minutes

TO.ENV.DEC x y

set the envelope decay time to y for CV output x; y in milliseconds (default 250 ms)

TO.ENV.DEC.S x y

set the envelope decay time to y for CV output x; y in seconds

TO.ENV.DEC.M x y

set the envelope decay time to y for CV output x; y in minutes

TO.ENV.EOR x n

fires a PULSE at the End of Rise to the unit-local trigger output 'n' for the envelope on CV output x; n refers to trigger output 1-4 on the same TXo as CV output 'y'

TO.ENV.EOC x n

fires a PULSE at the End of Cycle to the unit-local trigger output 'n' for the envelope on CV output x; n refers to trigger output 1-4 on the same TXo as CV output 'y'

TO.ENV.LOOP x y

causes the envelope on CV output x to loop for y times; a y of 0 will cause the envelope to loop infinitely; setting y to 1 (default) disables looping and (if currently looping) will cause it to finish its current cycle and cease

TO.TR.INIT x

initializes TR output x back to the default boot settings and behaviors; neutralizes metronomes, dividers, pulse counters, etc.

TO.CV.INIT x

initializes CV output x back to the default boot settings and behaviors; neutralizes offsets, slews, envelopes, oscillation, etc.

TO.INIT d

initializes all of the TR and CV outputs for device number d (1-8)

TO.KILL d

cancels all TR pulses and CV slews for device number d (1-8)