**TELEX Command Reference**

Revision v.13x

* n represents the number of outputs or inputs that you have added to your Teletype (4 of each type for each expander)
* x represents the expander unit as opposed to an output
* α represents the value that you are supplying to an operator that takes a parameter; values are bipolar (-16384 to 16383)

**TELEXo (TXo)**

TO.TR 1-n α Set TR value to α (0/1)

TO.TR.TOG 1-n Toggle TR

TO.TR.PULSE 1-n Pulse TR using TO.TR.TIME/S/M as an interval

TO.TR.PULSE.DIV 1-n α Pulse Divider for every α pulses

TO.TR.TIME 1-n α time for TR.PULSE; α in milliseconds

TO.TR.TIME.S 1-n α time for TR.PULSE; α in seconds

TO.TR.TIME.M 1-n α time for TR.PULSE; α in minutes

TO.TR.WIDTH 1-n α sets the time for TR.PULSE as a percentage of TR.M

TO.TR.POL 1-n α polarity for TO.TR.PULSE set to α (0-1)

TO.TR.M 1-n α time for TR.M; α in milliseconds

TO.TR.M.S 1-n α time for TR.M; α in seconds

TO.TR.M.M 1-n α time for TR.M; α in minutes

TO.TR.M.BPM 1-n α time for TR.M; α in beats per minute

TO.TR.M.ACT 1-n α activates the metronome pulse [0/1]

TO.TR.M.SYNC 1-n x synchronizes the metronomes for device x

TO.CV 1-n α CV target α (bipolar)

TO.CV.SLEW 1-n α CV slew time; α in milliseconds

TO.CV.SLEW.S 1-n α CV slew time; α in seconds

TO.CV.SLEW.M 1-n α CV slew time; α in minutes

TO.CV.SET 1-n α set CV to α (bipolar); ignoring SLEW

TO.CV.OFF 1-n α CV offset; α added at final stage

TO.CV.QT 1-n α CV target α; quantized to output's CV.SCALE

TO.CV.QT.SET 1-n α set CV to α; quantized to output's CV.SCALE

TO.CV.N 1-n α CV target note # α in output's CV.SCALE

TO.CV.N.SET 1-n α set CV to note # α in output's CV.SCALE

TO.CV.SCALE 1-n α select scale # α for individual CV output

TO.OSC 1-n α targets oscillation to α (1v/oct translated)

TO.OSC.SET 1-n α sets oscillation to α; ignores OSC.SLEW

TO.OSC.QT 1-n α targets oscillation to α in OSC.SCALE

TO.OSC.QT.SET 1-n α sets oscillation to α in OSC.SCALE

TO.OSC.N 1-n α targets oscillation to note # α in OSC.SCALE

TO.OSC.N.SET 1-n α sets oscillation to note # α in OSC.SCALE

TO.OSC.FQ 1-n α targets oscillation to frequency α in Hz

TO.OSC.FQ.SET 1-n α sets oscillation to frequency α in Hz

TO.OSC.LFO 1-n α targets oscillation to frequency α in mHz

TO.OSC.LFO.SET 1-n α sets oscillation to frequency α in mHz (

TO.OSC.WAVE 1-n α waveform [0-4999] [sin|tri|saw|pulse|noise]

TO.OSC.SYNC 1-n resets the phase of the oscillator

TO.OSC.PHASE 1-n α sets the phase offset to α [0-16384]

TO.OSC.WIDTH 1-n α sets the pulse width to α [0-100]

TO.OSC.RECT 1-n α rectifies the oscillator to α [-2-+2]

TO.OSC.SLEW 1-n α sets the slew time for the oscillator; α in ms

TO.OSC.SLEW.S 1-n α sets the slew time for the oscillator; α in sec

TO.OSC.SLEW.M 1-n α sets the slew time for the oscillator; α in min

TO.OSC.SCALE 1-n α sets the quantization scale for the oscillator

TO.OSC.CYC 1-n α sets the cycle length for the oscillator; α in ms

TO.OSC.CYC.S 1-n α sets the cycle length for the oscillator; α in sec

TO.OSC.CYC.M 1-n α sets the cycle length for the oscillator; α in min

TO.OSC.CYC.SET 1-n α targets the cycle length for the oscillator; α in ms

TO.OSC.CYC.S.SET 1-n α targets the cycle length for the oscillator; α in sec

TO.OSC.CYC.M.SET 1-n α targets the cycle length for the oscillator; α in min

TO.ENV.ACT 1-n α activates the envelope generator [0/1]

TO.ENV.ATT 1-n α attack time for the envelope; α in ms

TO.ENV.ATT.S 1-n α attack time for the envelope; α in sec

TO.ENV.ATT.M 1-n α attack time for the envelope; α in min

TO.ENV.DEC 1-n α decay time for the envelope; α in ms

TO.ENV.DEC.S 1-n α decay time for the envelope; α in sec

TO.ENV.DEC.M 1-n α decay time for the envelope; α in min

TO.ENV.TRIG 1-n triggers the envelope to play

TO.KILL cancels TR pulses and CV slews

**TELEXi (TXi)**

TI.IN 1-n reads the CV input jack [-16384 – 16383]

TI.IN.QT 1-n return the quantized value in IN.SCALE

TI.IN.N 1-n return the note number in IN.SCALE

TI.IN.SCALE 1-n α sets the current scale for the input to α

TI.IN.MAP 1-n α α maps the IN to the range α to α

TI.PARAM 1-n reads the PARAM knob [0 – 16383]

TI.PARAM.QT 1-n return the quantized value in PARAM.SCALE

TI.PARAM.N 1-n return the note number in PARAM.SCALE

TI.PARAM.SCALE 1-n α sets the current scale to α

TI.PARAM.MAP 1-n α α maps the PARAM to the range α to α

TI.IN.CALIB 1-n α calibrates the scaling for the IN jack

TI.PARAM.CALIB 1-n α calibrates the PARAM knob scaling

TI.STORE 1-x stores the calibration data

**Quantization Scale Reference**

# Scale Name

0 Standard 12 Tone Equal Temperament [DEFAULT]

1 12-tone Pythagorean scale

2 Vallotti & Young scale (Vallotti version)

3 Andreas Werckmeister's temperament III

4 Wendy Carlos' Alpha scale with perfect fifth divided in nine

5 Wendy Carlos' Beta scale with perfect fifth divided by eleven

6 Wendy Carlos' Gamma scale with third divided by eleven or fifth by twenty

7 Carlos Harmonic

8 Carlos Super Just

9 Kurzweil "Empirical Arabic"

10 Kurzweil "Just with natural b7th", is Sauveur Just with 7/4

11 Kurzweil "Empirical Bali/Java Harmonic Pelog"

12 Kurzweil "Empirical Bali/Java Slendro, Siam 7"

13 Kurzweil "Empirical Tibetian Ceremonial"

14 Harry Partch's 43-tone pure scale

15 Partch's Indian Chromatic, Exposition of Monophony, 1933.

16 Partch Greek scales from "Two Studies on Ancient Greek Scales" on black/white