



## TELEX Command Reference

Revision v.13y

- n represents the number of outputs or inputs available across expanders
- 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.COUNT 1-n α	sets the number of repeats to α (0=infinity)
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

## TELEX<sub>i</sub> (TX<sub>i</sub>)

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 $\alpha$	sets the current scale for the input to $\alpha$
TI.IN.MAP 1-n $\alpha$ $\beta$	maps the IN to the range $\alpha$ to $\beta$
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 $\alpha$	sets the current scale to $\alpha$
TI.PARAM.MAP 1-n $\alpha$ $\beta$	maps the PARAM to the range $\alpha$ to $\beta$
TI.IN.CALIB 1-n $\alpha$	calibrates the scaling for the IN jack
TI.PARAM.CALIB 1-n $\alpha$	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 Tibetan 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