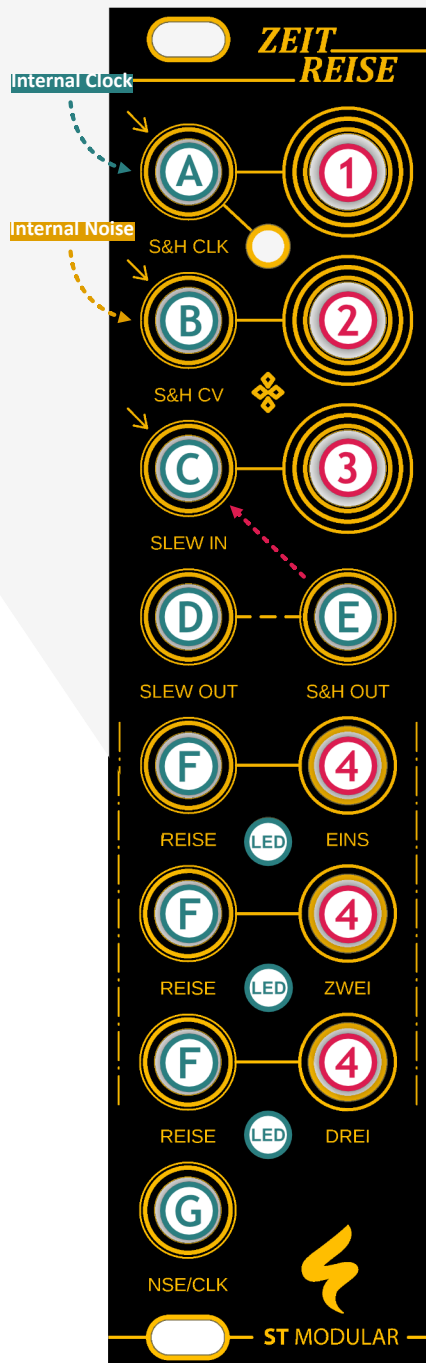


ZEITREISE QUICK START GUIDE



ZEITREISE

is a sample & hold module, a slew limiter, random CV, noise and clock generator for producing slow and unpredictable parameter changes via control voltage.

CONTROLS

- 1. CLOCK RATE.** Turn right to increase clock speed. This clock is normalized to the S&H CLK input (A) and can be output at the NSE/CLK output (G). Clock rates range from approx. 0.2 Hz (12 bpm) to approx. 21 Hz (1,236 bpm).
- 2. S&H CV ATTENUATOR.** This potentiometer can be used to reduce the voltage level applied to the S&H CV input. This reduces the range of voltage levels supplied at the S&H stepped output (E).
- 3. SLEW RATE.** Determines how strongly the slew limiter smooths or limits abrupt voltage changes. Turn the control to the right to increase the slew time and smooth the input signal (C).
- 4. REISE ATTENUATORS.** Reduce the voltage level of the REISE outputs with the respective attenuators by turning them to the left.

INPUTS & OUTPUTS

- A. S&H CLK input.** Connect an external clock or a trigger signal here to start voltage sampling using the sample & hold function. The internal clock is normalised to this input. This connection is interrupted when an external patch cable is plugged in.
- B. S&H CV input.** Patch the voltage to be sampled here. This voltage is saved and held at the S&H OUT (E) socket each time a clock/trigger signal is sent to the S&H CLK (A) input.
- C. SLEW IN.** This is the input for the slew limiter. The applied voltage is smoothed and limited according to the slew rate set with the SLEW IN potentiometer (3).

The S&H output is normalised to this input. This connection is interrupted when a patch cable is connected.

- D. SLEW OUT.** Primary output of the slew limiter, delivering voltage that has been smoothed and limited based on the configured slew rate (3).
- E. S&H OUT output.** Main output of the sample & hold function, which supplies a stepped voltage that can be fed to the CV inputs of other modules.
- F. REISE outputs.** These outputs supply slowly meandering control voltages that change their voltage levels from a maximum of -8V to +8V. Use the appropriate attenuators (4) to reduce the voltage level.
- G. NSE/CLK output.** This output supplies either the clock from the S&H CLK input (patched or normalized) or white noise. You can choose between these two outputs by setting a jumper on the back of the module.

LED. REISE LEDs provide real time indication of the current status of the generated voltage. These LEDs are implemented prior to their respective attenuators (4) to ensure clarity regarding their voltage levels and interactions at all times. So if you turn the attenuators to the left to reduce or eliminate the output voltage, the LEDs still show the voltage that could be present at the outputs.

CALIBRATION

NSE_CLK_SLCT. Set the jumper to output either the clock from the S&H CLK input (A) or white noise at the NSE/CLK output (G).

QUESTIONS?

Please go to www.st-modular.de and post your question in the forum.

