Vibrator Controls Typ RS

General

Vibrator controls type RS are specifically designed for controlling shakers in extraction systems. They ensure automated shaking of filter elements to maintain continuous functioning of the extraction system and extend filter service life. Both controls prevent shaking during the extraction phase or the fan's after-running time and offer flexible adjustment options to optimally tailor shaking cycles to the process. Thus, they provide a reliable component for the safe and efficient operation of extraction systems.

Comparison RS1K and RS2K

Type		**RS1K**	**RS2K**
Rapping time point		T_n after switching on the first machine	After Σ(machine runtime) ≥ T_n
T_n		1 - 30 min	5 - 30 min
Run-down time		-	60s
Rapping interval	K1	for 18s in 3s or continuous vibrating for 20s	for 18s in 3s or continuous vibrating for 20s
	K2	every 0,5s or 0,8s	every 0,5s or 1s
Display	Device power on	-	LED green
	Waiting for vibration time	LED red	LED yellow
	Cleaning active	LED green	LED green flashing
	Run-down time	-	LED yellow flashing
Control voltage		AC/DC 24 - 240 V	AC/DC 24 - 270 V

Function and characteristics

The RS1K and RS2K vibrator controls impress with simple and safe operation combined with flexible adjustment options. The delay time is triggered on both models either via a contactor control signal or by monitoring the extraction fan motor current with a current sensor. The RS1K offers a continuously adjustable delay time from 1 to 30 minutes, while the RS2K allows a delay between 5 and 30 minutes and additionally includes a 60-second after-run time to account for the fan's spool-down phase.

Several control modes enable comfortable selection of shaking programs: Both controls provide relay K1 with options for continuous shaking lasting 20 seconds or pulse shaking for 18 seconds in 3-second intervals.

For relay K2, the RS1K supports pulse intervals of 0.5 or 0.8 seconds, whereas the RS2K offers 0.5 or 1.0 second intervals. The device status is visually indicated by LEDs: the RS1K uses a red LED to signal the delay time and a green LED for active shaking; the RS2K displays the delay time with a yellow LED, the active shaking with a green blinking LED, and the after-run with a yellow blinking LED. Additionally, the RS2K shows a green LED when the device is powered on.

Both models are compactly designed for control cabinet installation. The RS1K operates at a supply voltage of AC/DC 24 to 240 V, while the RS2K is slightly more flexible with 24 to 270 V. Their reliable control and practical indication and adjustment features optimally support the trouble-free operation of extraction systems and comply with all relevant safety requirements with CE certification.