

SONIC DIGITAL HS))

Ultrasonic DIN rail generators

SURFACE TECHNOLOGY



Ultrasonic DIN rail generators

can be integrated into control cabinets with a single “click” and are suitable for up to 2,000 Watts of power.

- Digital frequency generation and control
- Constant power output – digitally controllable between 50 – 100%
- Interface for monitoring and controlling process-relevant functions
- Switched mode power supply
- High efficiency – low heat build-up
- Optimized operational reliability
- Standard frequencies: 25, 30, 40 and 80 to 150 kHz
Other frequencies available on request

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Application

Weber Ultrasonics has customized SONIC DIGITAL DIN rail generators to meet the requirements and wishes of ultrasonic unit manufacturers: Whether you are fitting out an ultrasonic unit for the first time or wish to retrofit an existing installation, the Weber Ultrasonics devices can be integrated in any control cabinet quickly and easily. With their digital frequency generation and control, absolutely constant power output and interval function, they are also ideally suited for use in ultrasonic installations that require an extremely precise sonic focus. The ability to physically separate the power section and the control element is another feature that sets standards in the field of ultrasonic technology. While the power section is fitted in the control cabinet, the unit can be operated ergonomically from the control console of the installation. The optional service unit or removable front control panel has two menu items. In the main menu you can set the on/off, output and timer functions. The password-protected menu item "Start-up" allows you to change set parameters quickly without measuring devices. An RS 232 interface is also available if you wish to operate the DIN rail generators from your PC.

Operational reliability

SONIC DIGITAL DIN rail generators are equipped with various innovative protective functions for maximum operational reliability. These include the intelligent cooling system: The temperature of the heat sink is continuously monitored. If the temperature exceeds a defined value, sensors start the integrated fan. If necessary, this cooling reduces the air flow significantly and thereby also the soiling of the module. At the same time a constant operating temperature of the system is ensured, which also increases the service life of the components. There is also standard protection against short-circuit, no-load operation and overload. A soft-start process protects the connected transducer system. When using ultrasonic transducers of the SONOPUSH® series, SONIC DIGITAL generators detect the risk of dry running and reduce the output automatically. Advantage: 100% dry run protection.



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Service unit

SONIC DIGITAL HS Ultrasonic DIN rail generators

For rod transducers Ø50 mm

25 kHz	Article	Type SD	Length A mm
	404 600 10	HS 600 SD	198
	404 600 11	HS 600 SD	297
	404 600 12	HS 1000 SD	297
	404 600 13	HS 1000 SD	396
	404 600 14	HS 1000 SD	495
	404 600 15	HS 1200 SD	396
	404 600 16	HS 1200 SD	495
	404 600 17	HS 1500 SD	495
	404 600 18	HS 1500 SD	594
	404 600 19	HS 1500 SD	693
	404 600 20	HS 1500 SD	891
	404 600 21	HS 2000 SD	891
	404 600 22	HS 2000 SD	1089
	404 600 23	HS 2000 SD	1287

For submersible transducers

25 kHz	Article	Type TD
	404 600 60	HS 300 TD
	404 600 61	HS 600 TD
	404 600 62	HS 1000 TD
	404 600 63	HS 1200 TD
	404 600 64	HS 1500 TD
	404 600 65	HS 2000 TD

For rod transducers Ø38 mm

30 kHz	Article	Type SD	Length A mm
	404 600 30	HS 600 SD	270
	404 600 31	HS 600 SD	354
	404 600 32	HS 1000 SD	437
	404 600 33	HS 1000 SD	520
	404 600 34	HS 1000 SD	604
	404 600 35	HS 1200 SD	604
	404 600 36	HS 1500 SD	687

For submersible transducers

30 kHz	Article	Type TD
	404 600 70	HS 300 TD
	404 600 71	HS 600 TD
	404 600 72	HS 1000 TD
	404 600 73	HS 1200 TD
	404 600 74	HS 1500 TD
	404 600 75	HS 2000 TD

For rod transducers Ø30 mm

40 kHz	Article	Type SD	Length A mm
	404 600 50	HS 300 SD	201
	404 600 51	HS 500 SD	264
	404 600 52	HS 750 SD	391
	404 600 53	HS 1000 SD	517
	404 600 54	HS 1200 SD	770

For submersible transducers

40 kHz	Article	Type TD
	404 600 80	HS 300 TD
	404 600 81	HS 600 TD
	404 600 82	HS 1000 TD
	404 600 83	HS 1200 TD
	404 600 84	HS 1500 TD
	404 600 85	HS 2000 TD

Dimensions (W×H×D):
169×385×89 mm

Weight: 3.7 kg

Mains connection: 230 V - 50/60 Hz single-phase

Option: Service unit and removable front panel on request.

All devices with 15-pole d-sub remote control interface socket.