PUBLIC ADDRESS / AMPLIFIERS / MONO

# MAX-360Z

PA MULTI-ZONE AMPLIFIER











- Class D amplifier and SMPS switched power supply
- Speaker output zones with volume control
- Bluetooth/USB/FM player
- Emergency and mute input for connection to alarm and evacuation systems
- Attenuator priority 24 V and 3rd priority wire

+ Info:
https://fonestar.com/MAX-360Z

ESPECIALLY RECOMMENDED IN:



Factories



Sports facilities



Hospitality



All sectors

## DESCRIPTION

PA amplifier with Bluetooth®/USB/FM player and speaker zone selector. Designed by Fonestar, unique, elegant and innovative. It uses a modern class D amplifier of high efficiency and reliability to offer the best sound performance. It can cover any space with sound for long working days. Output zones allow different volume levels to be selected, customising the sound level of each zone. Messages can be sent to zones with zone microphone. The best solution for PA and background music installations with a large number of 100 V line loudspeakers. It also has a low impedance output for transformerless loudspeakers. Features a built-in player as a source of background music. Microphone inputs allow for ring tone announcements. They have priority attenuating auxiliary inputs and activate the priority of attenuators (24V) and 3rd wire output with priority. Combo and euroblock connectors with secure, long-lasting and low-maintenance connection. The amplifier offers user-friendly operation. It can be used as a desktop or rack-mounted amplifier. Perfect for PA and piped music systems with 100 V or low impedance line loudspeakers. Commercial premises, educational centres, monuments, exhibitions, bars, restaurants, etc.



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## TECHNICAL CHARACTERISTICS

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| FEATURES | Class D PA amplifier and SMPS switch-mode power supply.<br>Bluetooth/USB/FM player.<br>ZONEMIC-6 zone microphone input.<br>Input for remote wall panel.<br>Microphone input with mix, gain and priority level control.<br>Ringtone generator (Chime).<br>3 auxiliary inputs.<br>Emergency input and mute for connection to alarm and evacuation systems.<br>24 V attenuator priority.<br>3rd wire output (100 V) with attenuator priority.<br>Tone controls.<br>100 V, 70 V and 4 Ohm outputs.<br>4 outputs zones with volume control and Off. |
| POWER | 360 W RMS |
| RESPONSE | 45-22,000 Hz (-10 dB) |
| DISTORTION | THD+N: <0.5% at 1 kHz |
| S/N RATIO | Mic >75 dB, Line >83 dB, Aux >81 dB |
| PROTECTIONS | Soft start, over-current, overload, over-temperature and short circuit |
| INPUTS | ZONEMIC-6 zone microphone, RJ45, up to 200 m cable length<br>Remote wall panel, RJ45, 250 mV RMS<br>CH 1 balanced mic/line with 48V Phantom, Combo (XLR + 6.3 mm) and euroblock. Contact closure ring tones<br>CH 2, 3, 4 and 5 mic/line balanced with 48V phantom. Combo (XLR + 6.3 mm) and euroblock. Contact closure ring tones<br>Mic signal level: 5.6 mV RMS (-45 dBV) / 600 Ohm<br>Line signal level: 250 mV RMS (-12 dBV) / 100k Ohm<br>3 x AUX. 2 x RCA connector. Signal level 316 mV RMS (-10 dBV) / 47.000 Ohm.<br>1 x emergency. Euroblock connector. Signal level: line 326 mV RMS (-10 dBV) or line 100 V<br>Mute (Emergency Priority) by contact closure. Euroblock connector<br>1 Amp-in. RCA connector. Signal level 1.2 V RMS (+ 1.5 dBV) |
| OUTPUTS | 1 REC. 2 x RCA connector. Signal level 316 mV RMS (-10 dBV). Pre-master.<br>1 Pre-out. RCA connector. Signal level 1.2 mV RMS (+1.5 dBV)<br>100 V, 70 V or 4 Ohm speaker output, or 5 zones of 100 V loudspeakers with 7-position volume selector and OFF (max. 240 W per zone). Euroblock connector<br>1 Attenuator priority, 24 V 100 mA and contact closure. Euroblock connector<br>1 3rd priority wire for attenuators (100 V) |
| IMPEDANCE | 4 Ohm, 100 V (27 Ohm) and 70 V (13 Ohm) line, euroblock |

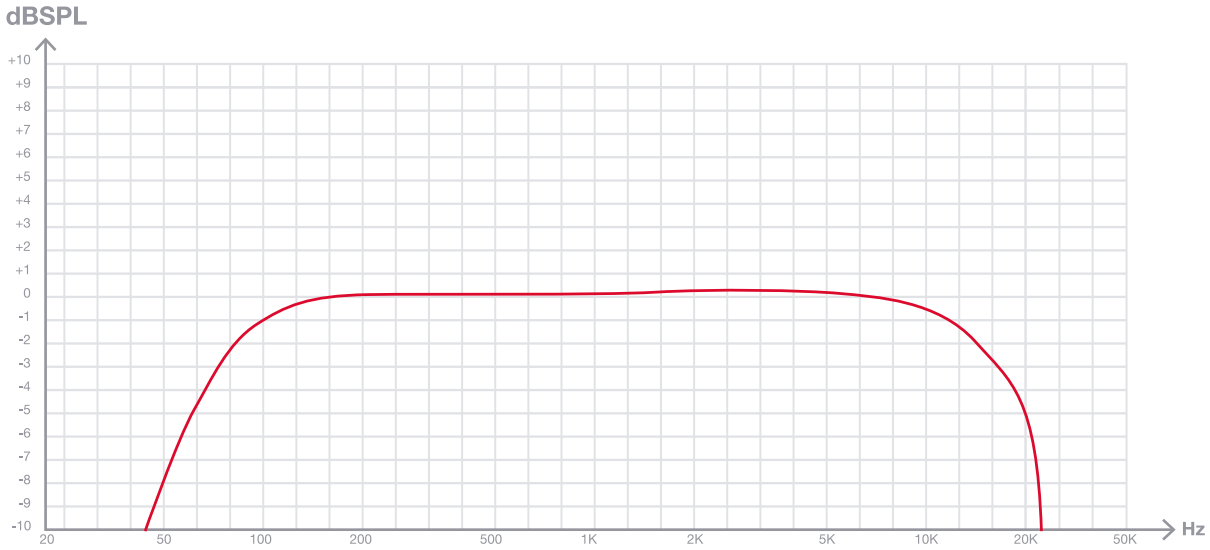
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| FUNCTIONS | Input priority (voice over inputs (VOX)):<br>- 100 V Emergency input / line with maximum priority and MUTE by contact closure, attenuates all inputs except the 100 V Emergency input.<br>- ZONEMIC-6 zone microphone input<br>- Remote wall panel input<br>- Channel 1 with priority over all other inputs, level selectable<br>- Channel 2, 3 and 4 with priority over auxiliary and player inputs, level selectable<br>- AUX and player inputs<br>Ringing tones (chime): at microphone inputs, by contact closure<br>Power ring light on volume control, AUX input, zone and player indicators. Power on, signal, clip, priority activation and protection<br>Induction cooling, fanless. Silent and maintenance-free |
| PLAYER | Bluetooth/USB/FM player for ambient music playback<br>5.3 Bluetooth.<br>Autoplay, starts playback automatically when switched on<br>Memory of the last selected mode<br>Playback mode memory (random, repeat). |
| CONTROLS | Microphone volume<br>Master volume<br>Auxiliary input selector or player<br>Zones with power on and 7 volume positions<br>Tone: bass and treble (±10 dB 100 Hz and 10k Hz).<br>Mic/line/phantom selector, ring tones and priority<br>Ringing tone level (chime)<br>Priority activation signal level (VOX) |
| TEMPERATURE | Operation: -10° ~ 40°C<br>Storage: -20° ~ 60°C |
| MAXIMUM HUMIDITY | 90% |
| POWER SUPPLY | 230/115 V AC 50-60Hz<br>Power consumption: 600 W<br>AC fuse 230 V 8 A / 115 V 16 A |
| DIMENSIONS | 430 x 89 x 320 mm depth. 2 U 19" rack |
| WEIGHT | 9.8 kg |
| ACCESSORIES | FM antenna<br>Bluetooth antenna.<br>Power cable<br>Rack mounts |
| OPTIONAL | ZONEMIC-6: Zone microphone |



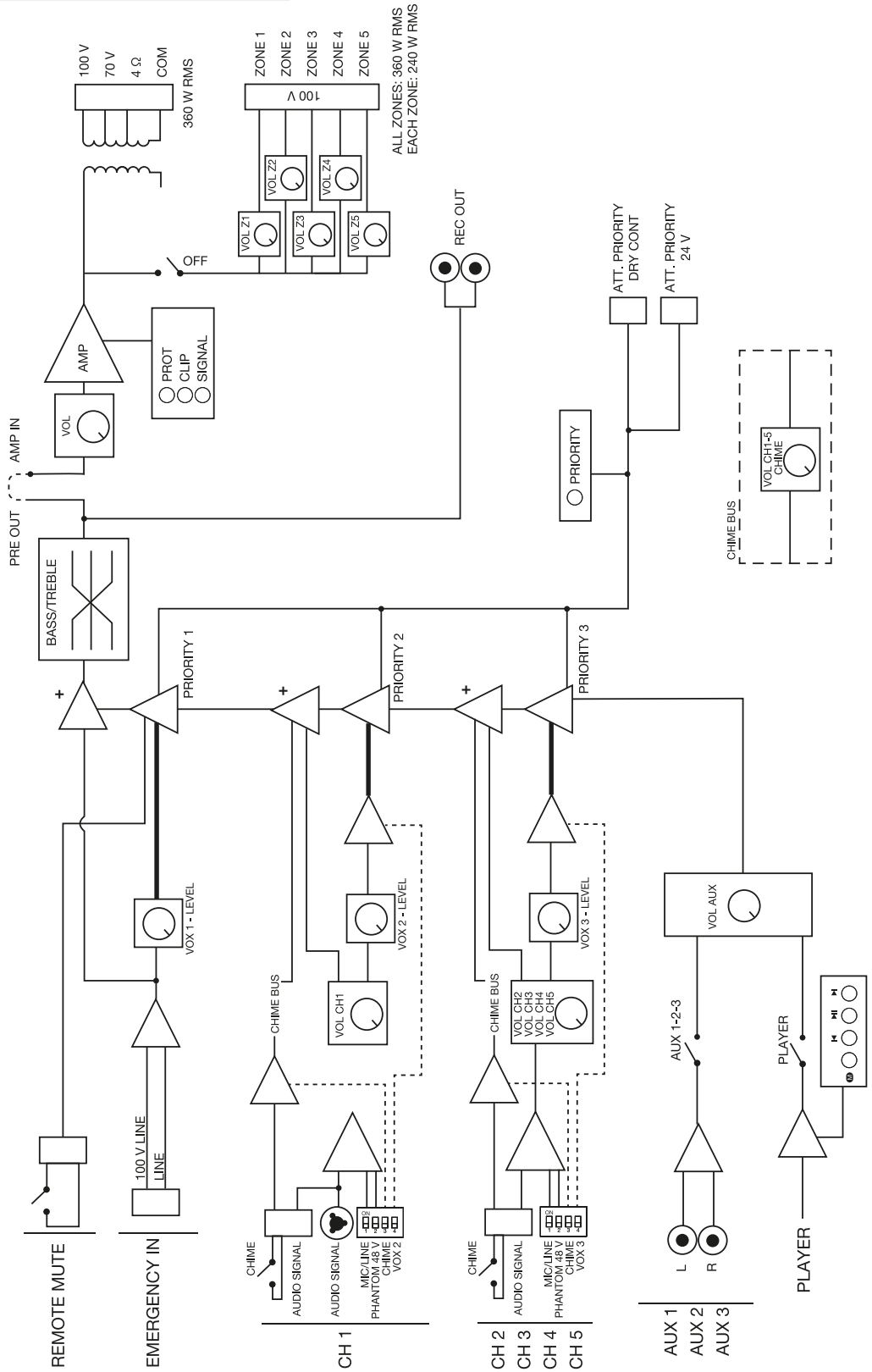
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## SPL vs Frequency

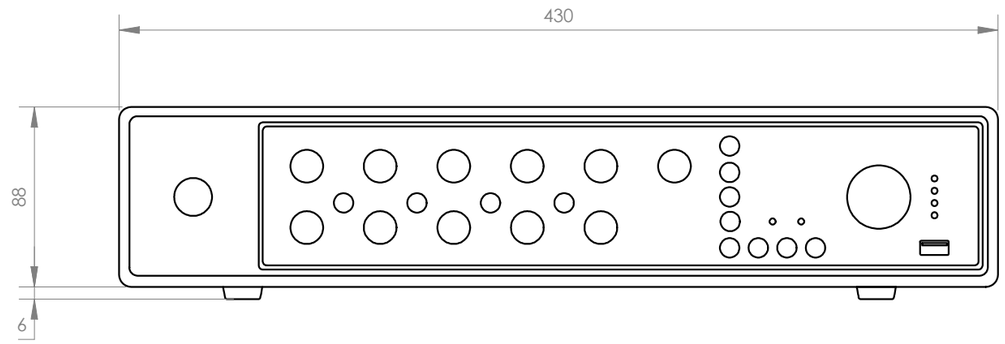


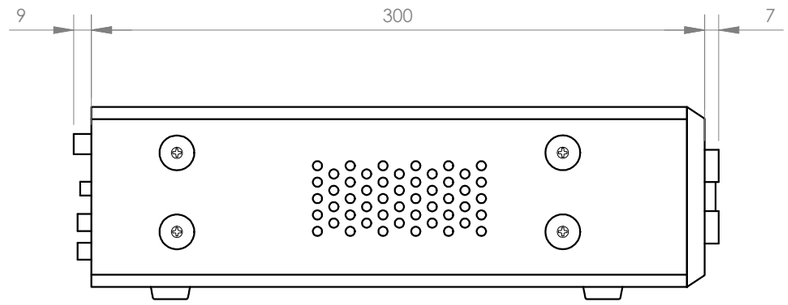

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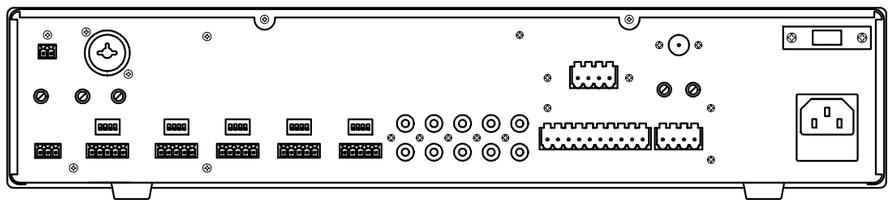
## Block diagram




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| FONESTAR | Model | Description | Units | Scale |
|---|---|---|---|---|
| | MAX-360Z | PA MULTI-ZONE AMPLIFIER | mm | 1:3 |