W5-2 Wall Mounted MultiLoop Hearing Loop Driver

The W5-2 professional induction loop driver has been engineered for special loop design processes and cost-efficient considerations, allowing for the delivery of high-quality, low-spill hearing loop performance in compact spaces.

Designed for straightforward and discreet wall-mounted installations, it offers a practical solution for improving audio accessibility within confined environments.

The W5-2 induction loop driver has been designed with ease of installation and use in mind.

The W5-2 operates as a Class D amplifier, ensuring increased efficiency and lower power consumption. Additionally, it features integrated test tones, Euroblock screw terminal connections and a cable management unit, enhancing the ease of the installation.



Features

- Input 1 & 2 3 way 3.5mm euroblock screw terminal input
- Balanced mic/line selectable
- 100V line input 2 way 5mm euroblock screw terminal
- Phantom Power 24V (globally switchable for both mic inputs)
- Loop Output Drive Current W5-2 5A RMS per channel
- Loop Output Connectors 2 way 5mm Euroblock screw terminal per channel
- Built-in Test Tones (1KHz sine, tri-tone signal)
- Phase shift 90° (always on)
- Metal Loss Correction 0 to 3dB per octave frequency correction (1KHz remains constant)
- Three stage inductance compensation to correct frequency response with different loop lengths
- DC Out 24V DC Fuse protected output for ancillary devices.

Applications include:

Small rooms where there is no AV rack and no network monitoring requirements:

- Community Centres
- Board rooms
- Interview rooms
- Meeting rooms
- Classrooms

MultiLoop[™] System Design Configurations

MultiLoop Drivers can be used for different types of loop layout. You will need a MultiLoop system design for the loop layout which you can obtain from Ampetronic, produce your own using Loopworks[™] Design or download the W5-2 design templates available from the QR code on the next page.

Loss Control MultiLoops™

Multiple loop segments in two patterns each driven by one output channel.

Best for optimal evenness of coverage across any area. Suitable for large areas and buildings with metal construction.



Low Spill MultiLoops™

Suitable for applications where loops are close together or where confidentiality is an issue. Low Spill MultiLoops™ require careful and precise design.

Similar in design to a Loss Control MultiLoop[™] but with a more complex pattern that requires more cable.

Inductance switch position recommendation

Recommended Inductance Switch	1.0mm² Flat Copper Tape (m)		1.2mm² Twin Core Flat Copper Tape (m)		Loop Inductance (uH)	
Position	Min	Max	Min	Max	Min	Max
Low	0	55	0	15	0	80
Med	55	105	15	30	80	143
High	105	150	30	45	143	200

W5-2 Product Information

These products are designed to form part of a system that can meet all requirements of the international loop performance standard IEC60118-4, and the relevant parts of IEC TR 63079. To fully meet requirements of these standards, correct design, installation, commissioning and maintenance are required.

All data has been compiled in accordance with IEC62489-1, the international reporting standard for audio frequency induction loop equipment. Specifications should only be compared if compliant to this standard.

Drivers are marked with UKCA, CE mark & Regulatory Compliance Mark (RCM) to comply with RED to all relevant safety and EMC standards.

Optional Accessories Part code:

- W5-2 Amplifier and cable tray
- W5-2X Amplifier only



Installation Advice:



For full operating and maintenance instructions, plus design templates and other associated information please visit: www.ampetronic.com/w52

www.ampetronic.com sales@ampetronic.com support@ampetronic.com phone +44 (0)1636 610062



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Continuous pink noise 2.5 ARIM THD +N (1kHz, sine, max output) 0.5 % Maximum loop resistance 0.6 (at maximum current) Ω Frequency response ±3dB, 100 to 5000Hz D DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. 24 V Current 0.1 A Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) 12A, 125Vac 10A, 250Vac 10A, 30Vdc PROTECTION FEATURES UNIT UNIT Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. Max -4dB @ 90 °C Quiput attenuation Max -4dB @ 90 °C °C Quiput attenuation Max -4dB @ 90 °C Duit shutdown. PHYSIC	Voltage	7.	.8	V _{RMS}
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Maximum loop resistance 0.6 (at maximum current) Ω Frequency response ±3dB, 100 to 5000Hz Image: Status: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Image: Status: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Image: Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Image: Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Image: Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Image: Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Image: Status: 2 way, 25Wac Image: Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Image: Status: 2 way, 25Wac Image: Status	Voltage Current Continuous pink noise	7. 5	.8 5 .5	V _{RMS} A _{RMS}
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Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault Image: Contact rating (resistive load) 12A, 125Vac 10A, 250Vac 10A, 250Vac 10A, 30Vdc PROTECTION FEATURES UNIT Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. UNIT Querter to will be gradually attenuated followed by shutdown. Max -4dB @ 90 °C Quiput current will be gradually attenuated followed by shutdown. PA chip junction temp>155 °C °C DC input over-current Unit shutdown. PA chip junction temp>155 °C °C DC input over-current Unit shutdown. PA chip junction temp>155 °C °C DUput attenuation Max 4dB >5A dc input Output attenuation Max 4dB >5A dc input Output over-current Unit shutdown.	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage	7, 5 2 0 0.6 (at maxir ±3dB, 100	.8 5 .5 .5 num current) to 5000Hz 4	V _{RMS} A _{RMS} % Ω
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PROTECTION FEATURES UNIT Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. Max -4dB @ 90 °C Output current will be gradually attenuation Max -4dB @ 90 °C Unit shutdown. PA chip junction temp>155 °C °C DC input over-current Output attenuation Max 4dB >5A dc input Output over-current Unit shutdown. Max 4dB >5A dc input Qutput over-current Unit shutdown. >10A loop current PHYSICAL CHARACTERISTICS UNIT Dimensions: Width 270 mm Height 152 mm Unit Shutdown 42 mm Quepth 42 mm Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open.	7. 2 0 0.6 (at maxir ±3dB, 100 2 0	.8 5 5 5 5 5 10 5 5 000Hz 4 4 .1	V _{RMS} A _{RMS} % Ω Ω V A
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Output attenuation Mix -40B @ 90 C Unit shutdown. (Requires power cycle to recover) PA chip junction temp>155 °C °C DC input over-current Max 4dB >5A dc input Output attenuation Output attenuation Max 4dB >5A dc input Output attenuation Output over-current >10A loop current PHYSICAL CHARACTERISTICS UNIT Dimensions: Width 270 mm Height 152 mm Output Unit shutdown. 1.1 Kequires power cycle to recover) 1.1 kg	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the when the method in the net of the sector of the s	7. 2 0 0.6 (at maxir ±3dB, 100 2 0 12A, 1 10A, 2 10A, 5	.8 5 5 5 5 5 10 10 5 5 00 4 4 .1 2 5 Vac 5 00 Vac 30 Vdc	V _{RMS} A _{RMS} A _{RMS} % Ω V V A
Dimensional control PA chip junction temp>155 °C °C DC input over-current Image: Control control Image: Control control Output attenuation Max 4dB >5A dc input Image: Control control Output over-current Image: Control control Image: Control control Output over-current Image: Control control control Image: Control control control PHYSICAL CHARACTERISTICS UNIT Dimensions: Width 270 mm Image: Control control Image: Control control Image: Control control Output delight 152 mm Image: Control control control Image: Control control Image: Control control Operating temperature -10 to 40 Control control	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown.	7. 2 0 0.6 (at maxir ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 5	8 5 5 5 5 num current) to 5000Hz 4 1 1 25Vac 50Vac 30Vdc	V _{RMS} A _{RMS} A _{RMS} % Ω V V A UNITS
Dot input over-current Max 4dB >5A dc input Output attenuation Max 4dB >5A dc input Output over-current Image: Comparison of the second of the	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. Unit abutdown	7. 2 0 0.6 (at maxir ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 5 10A, 5 1	.8 5 .5 .5 num current) to 5000Hz 4 4 .1 25Vac 50Vac 30Vdc	V _{RMS} A _{RMS} A _{RMS} % Ω Ω V A A UNITS
Output over-current Unit shutdown. (Requires power cycle to recover) >10A loop current PHYSICAL CHARACTERISTICS UNIT Dimensions: Width 270 mm Height 152 mm Quetation 42 mm Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. Output attenuation Unit shutdown. (Requires power cycle to recover) DC input over-current	7. 2 0 0.6 (at maxir ±3dB, 100 2 0 12A, 1 10A, 2 10A, 5 10A, 5 Max -4c PA chip junctio	.8 5 .5 .5 num current) to 5000Hz 4 4 .1 25Vac 50Vac 30Vdc 30Vdc 4 8 00 db @ 90 n temp>155 °C	V _{RMS} A _{RMS} % Ω V V A V A UNITS
Unit shutdown. (Requires power cycle to recover) >10A loop current PHYSICAL CHARACTERISTICS UNIT Dimensions: Width 270 mm Height 152 mm Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. Output attenuation Unit shutdown. (Requires power cycle to recover) DC input over-current Output attenuation	7. 2 0 0.6 (at maxir ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 5 10A, 5 Max -4c PA chip junctio	.8 5 .5 .5 num current) to 5000Hz 4 4 .1 25Vac 50Vac 30Vdc 30Vdc 4 8 @ 90 n temp>155 °C	V _{RMS} A _{RMS} % Ω V V A UNITS
PHYSICAL CHARACTERISTICS UNIT Dimensions: Width 270 mm Height 152 mm Depth 42 mm Weight 1.1 kg Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Output attenuation	7. (2 2 0 0.6 (at maxin ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 5 Max -4c PA chip junctio Max 4dB >	.8 5 5 5 5 5 10 10 5 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	V _{RMS} A _{RMS} % Ω V V A UNITS
Dimensions: Width 270 mn Height 152 mm Depth 42 mm Weight 1.1 kg Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Unit shutdown. (Requires power cycle to recover)	7. (2 2 0 0.6 (at maxir ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 3 10A, 3 10A, 4 PA chip junctio Max 4dB > >10A loo	8 5 5 5 5 10 10 10 5000Hz 10 10 10 10 10 10 10 10 10 10 10 10 10	V _{RMS} A _{RMS} % Ω V A V A UNITS
Dimensions: Width Line mn Height 152 mm Depth 42 mm Weight 1.1 kg Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Unit shutdown. (Requires power cycle to recover)	7. (2 2 0 0.6 (at maxin ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 3 10A, 5 Max -4c PA chip junctio Max 4dB > >10A loo	.8 5 .5 .5 num current) to 5000Hz 4 4 .1 25Vac 50Vac 30Vdc 30Vdc 4 8 8 90 1B @ 90 n temp>155 °C 5A dc input 5 5 A dc input	VRMS ARMS ARMS % Ω WINTS °C °C °C Image: Comparison of the second s
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Depth 42 mn Weight 1.1 kg Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 3.5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Unit shutdown. (Requires power cycle to recover) PHYSICAL CHARACTERISTICS Dimensions: Width	7, 5 2 0 0.6 (at maxin ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 3 Max -40 PA chip junctio Max 4dB > 5 10A loo	.8 5 5 5 5 1.5 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	VRMS ARMS ARMS % Ω V A M V A S V A S V A S O C °C °C C O C O O NITS mm
Weight 1.1 kg Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 3.5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Output attenuation Unit shutdown. (Requires power cycle to recover) PHYSICAL CHARACTERISTICS Dimensions: Width Height	7, 5 2 0 0.6 (at maxir ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 2 10A, 3 10A, 4 PA chip junction Max 4dB > Nax 4dB > 10A loo	.8 5 5 5 5 5 10 10 5 5 5 5 5 5 5 5 5 5 5 5	VRMS ARMS ARMS % Q V A M V A S V A S V A S O C C C C C C C C M M M
Operating temperature -10 to 40 °C	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 3.5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Output attenuation Unit shutdown. (Requires power cycle to recover) PHYSICAL CHARACTERISTICS Dimensions: Width Height Depth	7, 5 2 0 0.6 (at maxin ±3dB, 100 2 2 0 12A, 1 10A, 2 10A, 2 10A, 3 10A, 4 2 10A loo Max 4dB > >10A loo	.8 5 5 5 5 5 10 10 5 5 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	V _{RMS} A _{RMS} A _{RMS} % Ω V A A A A A A A A A A A A A A A A A A
	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Output attenuation Unit shutdown. (Requires power cycle to recover) PHYSICAL CHARACTERISTICS Dimensions: Width Height Depth Weight	7, 5 2 0 0.6 (at maxin ±3dB, 100 2 0 12A, 1 10A, 2 10A, 2 0 Max -4c PA chip junctio Max 4dB > 10A loo 2 12 11 10A loo	.8 5 5 5 5 5 10 10 5 5 5 10 10 2 5 10 10 2 5 10 10 2 5 10 10 10 10 10 10 10 10 10 10 10 10 10	VRMS ARMS ARMS Q Q V A V A V A V A V A V A O V A O C O C O C C O C O C O <td< td=""></td<>
Ingress protection rating 30 IP	Voltage Current Continuous pink noise THD +N (1kHz, sine, max output) Maximum loop resistance Frequency response DC OUT: 2 way, 3.5mm, Phoenix. Fuse protected output for ancillary devices. Voltage Current Status: 2 way, 5mm, Phoenix. Volt free relay contacts indicating fault condition when open. Contact rating (resistive load) PROTECTION FEATURES Thermal Protection: If the PA amplifier reaches a pre-determined level the output current will be gradually attenuated followed by shutdown. (Requires power cycle to recover) DC input over-current Output attenuation Unit shutdown. (Requires power cycle to recover) PHYSICAL CHARACTERISTICS PHYSICAL CHARACTERISTICS Neight Operating temperature	7, (((((((((((((.8 5 5 5 5 10 m current) to 5000Hz 4 4 4 1 1 25Vac 50Vac 30Vdc 300	VRMS ARMS ARMS Q Q V A V A V A V A V A V A V A V A V A V A V A NTTS OC C VINITS Mm Mm Mm Mm Mm Mm Mm