

Digital Siren



MCS-DDSA 200W Digital Siren UNI-SIR-D20

PRODUCT OVERVIEW

The MCS-DDSA siren incorporates multi mode functionality. Because it is based on digital technology it can operate in different modes on the same installation by utilising different sets of speakers, if required.

Pumping out 200 Watts of 'real' dB power, unlike other offerings that are rated at 200 Watts as that is how much power they consume rather than reflecting how loud they actually are. The MCS-DDSA is unlike any other amplifier currently on the market.

It can produce two different siren tones at the same time giving a 'two vehicle' effect via 2 x 100 Watt speakers, or scrolled siren sounds via a 1 x 200 Watt speaker, plus, if required either 'simultaneously or separately' a low frequency rumble sound via 1 or 2 x low frequency 200w rumble speakers (rumblers).

With circuitry based on Class D digital siren technology this device is optimised to produce a true 200 Watt output or if preferred 2 x 100 Watt outputs with or without the optional low frequency rumble effect.

It can be controlled with conventional switches via on/off controls, in conjunction with the Horn Ring Transfer (HRT) feature if required and/or via CAN Bus signals for other complementary MCS controllers and switch units.

Low Frequency Rumble Tone Feature

This contributes to improving emergency vehicle operator and public safety especially in urban environments with high density heavy traffic and pedestrians. Also aids with clearing junction/intersection passage.

When used with the LSP-108 digital speaker to optimise the low frequency tones generated from the siren amplifier the output is a highly distinguishable 'Rumble' sound. As the sound is notably different to the standard siren tones that everyone is now familiar with this immediately gets peoples attention as well as creating a better sense of the direction the vehicle is coming from.

As the speaker is of a specialised nature, and should ideally be fitted in pairs, it is important that they are fitted correctly to take full advantage of the 'GROUND' effect. As such it is mainly appropriate to larger vehicles such as fire appliances and larger 4x4's.

FUNCTIONS & FEATURES

- 12 and 24 volt operation
- Interconnects to related products via proprietary CAN Bus
- Operates via a MCS Multiway Switch Unit or directly via discreet inputs
- Hands free operation via the HRT (Horn Ring Transfer) feature enables scrolling through pre-selected siren tones
- Selectable UK siren sounds with Air/Bull horn option
- Siren active output (ideal as Data Recorder Input)
- On board status LEDs
- City mode volume reduction feature
- Workshop (test) mode volume suppression

Rumble Effect Functions

- Automatic 'standard siren reduction' when Rumble effect active - typically 75%
- Automatically 'shut off' of Rumble effect to avoid accidental misuse - typically 8 seconds
- Adjustable automatic volume reduction and shut off times
- Use Rumble effect independently or with conventional sirens
- All user controlled via 'free' MCS configuration software

Absolute Maximum Ratings

- 30 volts DC supply voltage
- 20 Amps maximum

Electrical Characteristics

- Nominal supply voltage: 13.8 or 27.4 Volts DC.
Typically: 168mA @ 13.8 Volts no peripherals attached
- Standby Current: System Standby.
Typically: 19mA @ 13.8 Volts no peripherals attached
Maximum: 21mA
- Standby Temperature: -20°C to +70°C
- Operating temperature: -20°C to +65°C

Power

- 1 x 40 Amp DC on pluggable connector (20 Amp fuse MUST be used)
- 1 x Ground/chassis connection (40 Amp rated or more)

Digital Inputs

- 5 x positive switched inputs 1, 2 & 3, HRT + Air Horn
- 2 x negative switched (HRT & Airhorn)

Analog monitoring

- Incoming system voltage sense
- Internal temperature monitor
- Siren system current monitor

Outputs

- 3 x High or Low switching 500mA rated outputs with in-line resettable fuse
- Amplifier outputs typically into a 8 Ohm speaker load

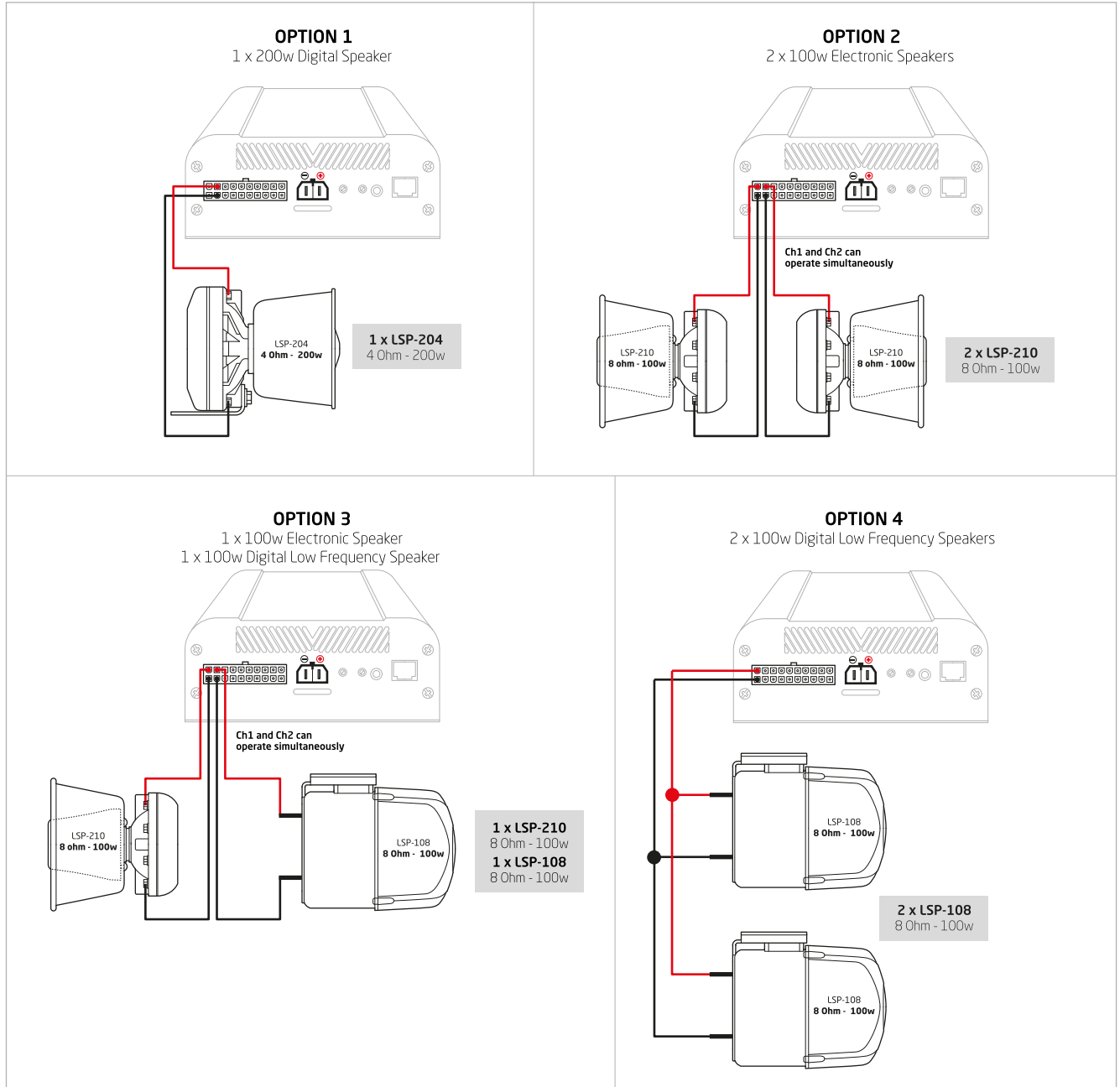
Communication

- 1 x CAN Bus 2.0 full speed interface

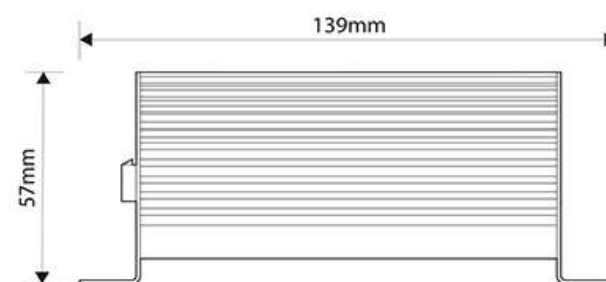
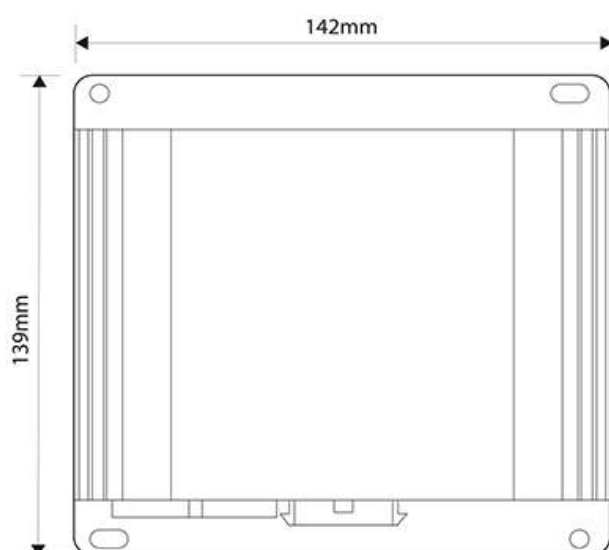
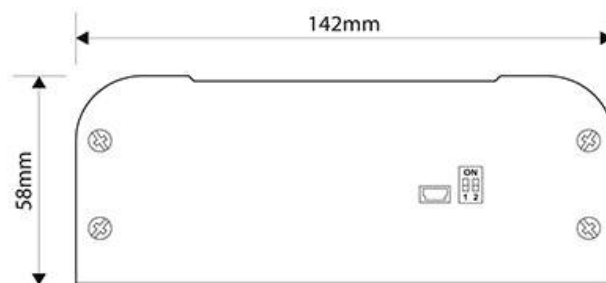
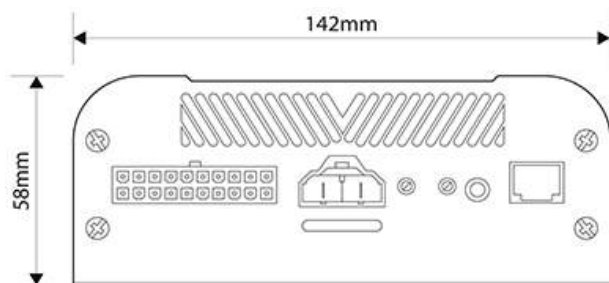


MODEL: UNI-SIR-D20

Typical System Configurations



Dimensions



Replacement Parts

Connector and Pin Kit: Part Number 22-1708

