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MVC VOLUME CONTROLS

MVC.6	6 Watt volume control
MVC.6R	6 Watt volume control with volume restoration relay
MVC.6RX	6 Watt volume control with fail-safe volume restoration relay
MVC.100	100 Watt volume control
MVC.100R	100 Watt volume control with volume restoration relay
MVC.100RX	100 Watt volume control with fail-safe volume restoration relay
MVC.300R	300 Watt volume control with volume restoration relay
MVC.300RX	300 Watt volume control with fail-safe volume restoration relay
MVC.6S	6Watt volume control with 6 position programme selection
MVC.6SR	6 Watt volume control with 6 position programme selection, priority restoration relay



- add /B to the above for brass fascia version (not available with MVC.300R)

GENERAL DESCRIPTION

The MVC range of controls may be incorporated into a distributed 100 volt line sound system to provide convenient control over the volume of individual loudspeakers or groups of loudspeakers. Unauthorised tampering with central amplifier controls is therefore prevented. Certain models feature remotely controlled restoration to maximise volume to ensure transmission of priority messages, alarm tones, etc.

MAIN FEATURES -

MVC.6* and MVC.100* models

- Very low insertion loss
- Choice of 6 Watt or 100 Watt rating
- Very wide bandwidth
- Fully rotating volume control knobs
- Uniformity of fascia design
- Internal circuit selection of minimum level setting
- Adjustable volume restoration levels on certain models
- Easy to wire connections
- Robust construction
- Surface mount steel backbox supplied
- Designed to fit various standard recessed boxes
- Stainless steel fascia to merge with any decor
- Brass fascia option

MVC.300R only

- Very low insertion loss
- Very wide bandwidth
- Fully rotating control knob
- Internal circuit selection of minimum level setting
- Adjustable volume restoration level
- Easy to wire connections
- Robust steel case construction
- Industrial paint finish

MVC.6RX MVC.100RX MVC.300RX models

- additional features

- Fail-safe volume restoration for Voice Alarm systems



ARCHITECTS & ENGINEERS SPECIFICATION

MVC.6, MVC.6R, MVC.100, MVC.100R

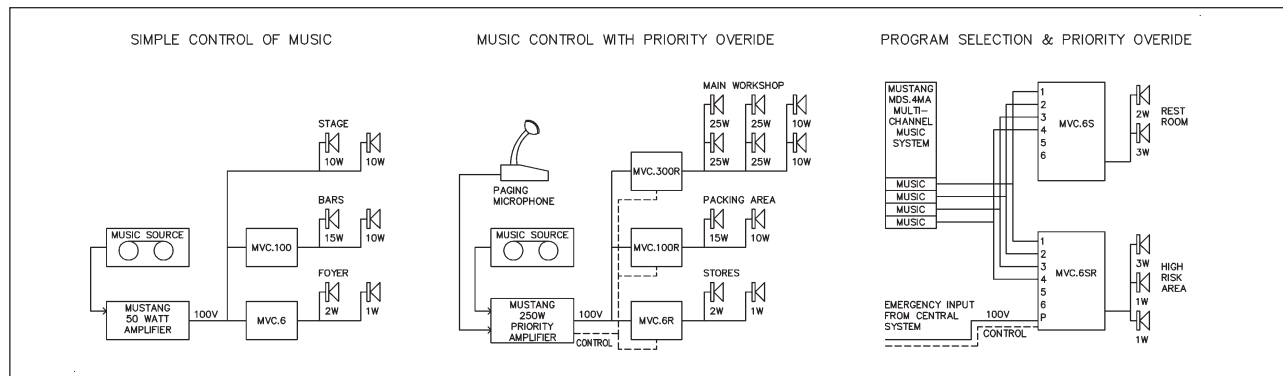
The unit shall be a Mustang MVC.6 (MVC.6R, MVC.100, MVC.100R) volume control. It shall be a single channel (mono) control suitable for incorporation into 100 Volt line loudspeaker systems for control of volume levels between zero and maximum in 12 switched increments. The unit shall be fitted with a brushed stainless steel front fascia plate, screen printed in black, and with a black control knob system to indicate the selected volume level. The volume control switch shall not be fitted with rotation stops. The control shall be rated at 6 Watts RMS (100 Watts RMS for MVC.100*). It shall be possible to pre-set the minimum level to between zero and approximately 8% of maximum by means of internal adjustment. The MVC.100R and MVC.6R units shall provide internal circuitry to restore the volume setting to a maximum level and this level may be internally selected by means of a screwdriver to be either unity, -3dB, or -6dB. This restoration shall be affected by the application of 24 Volts of either polarity to an internal relay whose coil switching transients shall be suppressed. All input and output connections shall be screwdriver type, and suitable for flexible or solid conductors of up to 2.5 sq mm. A back box shall be supplied, of type MK.2004 or equivalent, provided with 20mm and 25mm knock-outs for standard conduit fittings, and with a 20mm rubber grommet for use with smaller flexible cables. The back box shall be of enamelled steel, with radiussed corners, and pre-punched with a selection of rear fixing holes. The unit shall be designed to fit a steel recess style back box of specification equivalent to MK.878 for flush mounting, or a plastic box equivalent to Crabtree 9053 for surface mounting.

MVC.300R The unit shall be generally as per the MVC.100R except that it shall be constructed as a steel front panel and rear casing finished in light grey textured epoxy paint, and suitable for surface mounting only, and without conduit knock-outs. The unit shall be fitted with a volume restoration relay.

MVC.6S, MVC.6SR The unit shall be a Mustang MVC.6S (MVC.6SR) program selector. Its operation and construction shall be generally as the MVC.6 (MVC.6R) except that a second rotary switch with six positions shall be fitted such that a selection may be made from up to 6 independent 100 Volt line program inputs. The MVC.6SR shall be fitted with a restoration relay which, when energised, causes the unit to accept a signal, at maximum level only, from one dedicated priority program input.

MVC.6RX MVC.100RX MVC.300RX The unit shall be generally as the MVC.6R MVC.100R or MVC.300R but with the restoration to maximum volume being controlled by the removal of the 24 Volts relay supply, and therefore operating in a fail-safe mode.

TYPICAL APPLICATIONS



TECHNICAL SPECIFICATIONS

	MVC.6	MVC.6R MVC.6RX	MVC.100	MVC.100R MVC.100RX	MVC.300R MVC.300RX	MVC.6S	MVC.6SR
Maximum circuit loading (Watts)	6	6	100	100	300	6	6
Loudspeaker matching	100 Volt Line only						
Number of programme inputs	1					6	6 + priority input
Number of programme outputs	1						
Type of attenuator circuit	Resistive		Transformer			Resistive	
Restoration control configuration	N/A	4 wire	N/A	4 wire	4 wire	N/A	Multicore
Input programme selector	N/A					6 position	
Volume control definition	12 steps of 3dB						
Frequency response ref. 1kHz	Flat		-1dB @ 20Hz & 18kHz			Flat	
Relay power requirements	N/A	24V 15mA	N/A	24V 24mA	24V 15mA	N/A	24V 24mA
Maximum conductor size	2.5 mm ²						
Dimensions (mm)	86 x 146 x 46				150 x 150 x 120	86 x 147 x 46	
Depth behind mounting surface (mm)	24	24	39	39	N/A	24	24
Nett weight (gm)	410	425	980	1000	3460	420	445

In the interests of continuous development, specifications are subject to change without notice.

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Electromagnetic compatibility (EMC) directive 89/336/EEC and amendment directive 92/31/EEC

This equipment has been designed and manufactured to the highest standards. If connected and operated as set out in this manual, there should be no Electromagnetic Compatibility problems. If any aspect of operation gives rise to concern, then please contact the manufacturer for advice.