

Loudspeaker Circuit Volume Controls



IP65 Rating



25w and 100w products featuring standard UK switchplates can be supplied with an IP65 waterproof rating, at extra cost.

Add /IP to the order code.

Each control has been designed to provide excellent frequency response with minimum quiescent power loss, using uniquely wound auto-transformers for maximum efficiency.

Key features are

- A rugged, stepped, user control
- Collet fixing knobs
- Permanent, push-on, wiring connectors conveniently at one end of the p.c. board, so wiring is easy and 'installation stable'
- Easily adjustable, colour coded, on-board header receptacles for option selection; 300 watt excluded, uses terminal selection
- Detailed, diagrammatic instructions make preparation and installation easy.

LVC300 excepted, when operating with remote relay override, paging levels can be pre-set attenuated so that, in noisy warehouses

or a quiet office, paging volumes can be optimised to the prevailing ambient noise conditions.

Versions are available to special order with a paging on/off switch, for example, for discussion or conference areas, so that meetings need not be disturbed by unwanted paging announcements.

Also suitable, by 'on-board' option selection, for three wire amplifier sourced paging override systems, TRIWIRE.

As standard LVC025 and LVC100 volume controls are fitted to ivory plastics UK switchplates, moulded from ABS material to make them virtually unbreakable. Subject to a small minimum quantity, front panels can be hot foil stamped with the ultimate supplier or installer, even the installed venue name. Various metal front panel options are available at extra cost.

A range of 50/70/100V line remote volume controls for loads of 25, 100 and 300 watts with provision for local volume restoration for paging announcements by inbuilt 24v relay override.

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Volume controls for fail/safe use

LVC025/VA and LVC100/VA include all the same features of the standard LVC025 and LVC100 products; the main difference is that the override relay is energised when the Volume Control is in normal use and de-energises, in fail/safe override condition, to provide full volume restoration for emergency broadcasts.

Both controls are suitable for low frequency and d.c. line surveillance monitoring systems normally associated with VOICE ALARM facilities and are site adjusted for either by simple 'jumper' link; as supplied each product is pre-set for d.c. surveillance.

The current drawn by the fail/safe relay when in normal, energised, state is 30mA @ 24V.

Order codes

LVC 025/VA – 25w

LVC 100/VA – 100w

N.B. A comprehensive review of commercially available line volume controls is available from our Sales Office; typical quiescent power loadings of these as compared to the Communication Technology range are shown.

Lo-Cost Lo-Profile Volume Control TVC 25

TVC 25, a 25watt line volume control, has the advantage of being low profile, suitable for back boxes of at least 20mm internal depth when used with the standard single ivory white UK switchplates supplied.

TVC 25 may be operated in paging override mode, full volume restoration, by interfacing with TRI-WIRE, a Communication Technology product functioning between host amplifier output and loudspeakers. Up to 10 TVC 25s can be attached to one TRI-WIRE.

Order code

TVC25 – 25 watt, including UK front panel single switchplate.

For an IP65 version, add /IP to the order code.

For full information about TRI-WIRE please consult the Communication Technology Sales Office.

Specials!

PLEASE SPEAK TO OUR SALES OFFICE FOR QUOTATIONS

Specific front panels, or finishes • Paging on/off switching or incremental level control • Front panel engraving or silk screening Alternative relay operating voltages • Back box inclusion

TVC 25, LVC 025 and LVC 100 are available by special order with various EU front panels.

TECHNICAL SPECIFICATION – Loudspeaker Circuit Volume Controls

Rated input:

LVC 025:	25w, 100v
LVC 100:	100w,100v
LVC 300:	300w, 100v

Maximum loads

LVC 025:	30w
LVC 100:	120w
LVC 300:	330w

Maximum input voltage

100v, R.M.S. 140v Peak (intended for use on 50/70/100v line distribution systems).

Minimum nominal input voltage

50v

Control attenuation

60dB, in 12 steps, including off.

Paging attenuation

(applicable only to LVC 025 & LVC 100)
12dB, in 4 steps (relay override function only).

Operating frequency range

150Hz through 15KHz (except LVC 300 which operates to 40Hz).

Override relay

Consumption: 400mW, LVC 025 & LVC 100
900mW, LVC 300

24dc, other voltages on request. Will operate over the voltage range 75% to 120%

Operating in systems

- 1) If applicable, relay is diode suppressed; note polarity.
- 2) Not intended for use in accentuated bass music systems; attenuation recommended below 150Hz on LVC 025 & LVC 100; below 40Hz on LVC 300.

Terminations LVC 025 & LVC 100

Push-on screw terminations, fixing to p.c.b. header pins. Maximum cable size 2.5mm²; stripping length 6mm.

Terminations LVC 300

Screw terminations; maximum cable size 4mm²

Standard component colours

Front Panels: Ivory White
Knob & Index: Grey; knob collet fixing.

Measurements (mm)

Circuit Cards ('bare bones'):

LVC 025/PC:	48 deep x 69 long x 38 wide
LVC 100/PC:	46 deep x 95 long x 38 wide
LVC 300/PC:	60 deep x 140 long x 80 wide

Front Panels:

LVC 025:	25W UK version 86 x 86
LVC 100:	100W UK version 146 x 86
LVC 300:	300W flush mount 203 x 140 (mates with MK enclosure 5268 ALM)
LVC 300 SM:	300W surface mount 177 x 120 x 83 deep

Suitable UK Back Boxes (see above for LVC 300 details)

LVC 100 Double plate: Surface mount: Legrand 736086
Flush mount: Appleby SB635

LVC 025 Single plate (minimum inside depth: 44mm):

Surface mount: Legrand 736083
Flush mount: Appleby SB615

Order codes

LVC 025 25 Watt, including UK Front Panel, single switchplate
LVC 025/IP As LVC 025 (above) but with IP65 rating

LVC 100 100 Watt, including UK Front Panel, double switchplate
LVC 100/IP As LVC 100 (above) but with IP65 rating

LVC 025/PC 25 Watt, 'bare bones' p.c. only
LVC 100/PC 100 watt, 'bare bones' p.c. only

LVC 300 300 Watt, including Front Panel to mate with MK 5268 ALM flush backbox

LVC 300/PC 300 Watt, 'bare bones' chassis only

LVC 300/SM 300 Watt, mounted in surface fixing backbox

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