D-RLC10M, DB-RLC10M, DS-RLC10M
Remote Level Control with Muting - Rotary Optical Encoder

DB-RLC10M   DS-RLC10M   D-RLC10M

The D SERIES-RLC10M is a rotary remote level control with pushbutton muting that provides user adjustment at single or multiple locations. Optical encoder technology allows continuous knob rotation with a comfortable adjustment rate and long-term trouble-free and noise-free operation. These controls directly connect to any RDL VCA and OEM equipment with 0 to 10 Vdc ramp inputs.

DESCRIPTION

A single RLC10M may be connected to a ramp-controlled VCA using a single-pair shielded audio cable or unshielded cable. A rear-panel switch configures the control as the MASTER. The MASTER mode causes this control to drive the 0 to 10 Vdc ramp output and to monitor its pulse terminals in case any other RLC10M controls are connected.

As many as **nine additional** RLC10M controls may be wired in parallel with the MASTER control using UTP cable (CAT5, CAT6 or equivalent). The rear-panel MODE switch on each additional remote control is set to SLAVE mode. Multiple -RLC10M controls set to the SLAVE MODE may be connected to an RDL RU-VCA2A or RU-VCA6A, utilizing the VCA as the ramp generator. This connection is also possible with OEM equipment accepting open-collector pulses that are compatible with the RLC10M output pulse rate and width.

Operation is the same for a single control, or for each control connected in a multiple control point installation. The 0 to 10 Vdc ramp voltage is incremented up or down when the front-panel knob is rotated. Acceleration is provided so the rate of change is faster when the knob is rotated more rapidly, yielding a responsive feel and rapid elimination of acoustic feedback. The LED ring display encircling the control knob operates as a virtual pointer. When an RLC10M is not being adjusted, its display switches to a dim intensity to avoid being a visual distraction. The display returns to a bright intensity during adjustment. Upon power-up, the 0 to 10 Vdc ramp will output either a preset level or the last level used.

SPECIFICATIONS

Ramp:
0 to 10 Vdc (Slave mode input; Master mode output)

Pulse outputs (2):
Open-Collector @ 20 mA (UP, DOWN)

Pulse duration:
500 uS (min.) to 4 mS (max.)

Pulse interval:
500 uS (min., between consecutive pulses)

Rotations, approximate min-to-max:
5 (slow rotation, no acceleration)
3 (medium rotation, with acceleration)
1 (fast rotation counterclockwise)

Level control:
Optical rotary encoder

Muting:
Momentary pushbutton with LED indicator

Power requirement:
24 Vdc @ 50 mA, Ground-referenced

Mounting:
Mounts in standard US electrical box, RDL WB- or SMB-series boxes; cover plate available separately

Dimensions:
Height: 4.11 in. 10.44 cm; Width: 1.31 in. 3.33 cm; Depth: 0.98 in. 2.49 cm (w/o knob); Depth: 0.545 in. 3.93 cm (overall)

FEATURES

- Rotary Optical Encoder Remote Level Control
- Single or Multiple Control Locations
- Up To Ten Remote Control Locations
- Integral 0 to 10 Vdc Ramp Generator
- Visual Level Display of Operating Level
- Display is Bright During Adjustment
- Display Dims After Adjustment
- Powers Up to Last Level or Stored Preset Level
- Compatible with All RDL VCA Modules
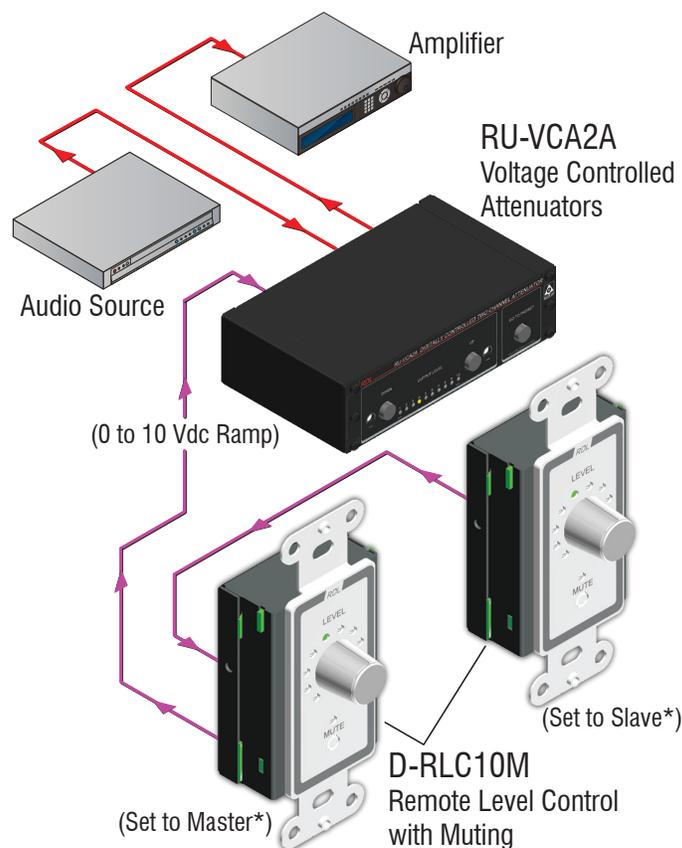- Available in Stainless Steel, Black and White

⌨ CUSTOMIZABLE

The text on the front of this product may be customized using the customization tool at **rdlnet.com**.

eco MULTIPLE

This product may share a common power supply with other RDL products. System energy efficiency is increased by powering multiple products from a single power supply.

APPLICATION DIAGRAM

Amplifier

RU-VCA2A
Voltage Controlled Attenuators

Audio Source

(0 to 10 Vdc Ramp)

(Set to Slave*)

D-RLC10M
Remote Level Control
with Muting

(Set to Master*)

* Each D-RLC10M may be set as Master or Slave on rear-panel switch; Master unit generates the 0 to 10 Vdc ramp.