

Lowell HEARD EVERYWHERE[®]



Plus
Seismic
P.E. Certified Racks!

New Products
Spring 2004

Supplements August 2002 Catalog

◆ Ganging Racks, Cabinets and Enclosures

Seismic

Certified



Better than seismic rated. . . Lowell Racks are Certified for Low / Moderate / High Seismic Zones

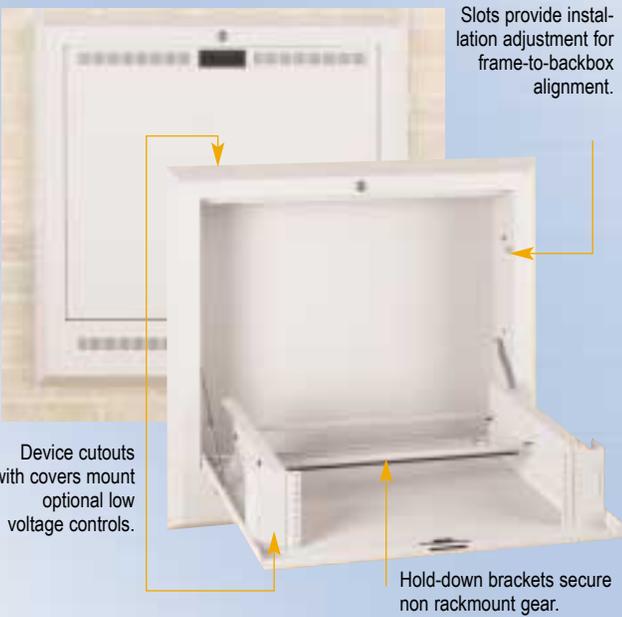
- **UBC** zones 1, 2, 3, 4A, 4B, 4C
- **CBC** zones 1, 2, 3, 4A, 4B, 4C
- **IBC** spectral response acceleration
- **UL Listed** standard 1678

← **P.E. Certified Documents** give you the tools you need. Seismic versions ship with certification summary and anchorage installation details for clear guidelines and worry-free inspections (order **-S** versions).

Seismic Certified Ganging Racks and Cabinets

Depth	Ganging Racks	Cabinets (Adj. Rails)	Cabinets (Fixed Rails)
22"D	L275-77S, L275-70S, L275-61S	L265-77S, L265-70S, L265-61S, L265-42S, L265-36S	L260-77S, L260-70S, L260-61S, L260-42S, L260-36S
27"D	L277-77S, L277-70S, L277-61S, L277-42S	L267-77S, L267-70S, L267-61S, L267-42S, L267-36S	L262-77S, L262-70S, L262-61S, L262-42S, L262-36S
32"D	L278-77S, L278-70S, L278-61S	L268-77S, L268-70S, L268-61S	-
36"D	L279-77S, L279-70S, L279-61S	-	-

Suffix Model with (-S) for seismic version with weldments to base, reinforcing brackets, and certification documents for UBC, IBC and CBC. Contact factory for pricing.



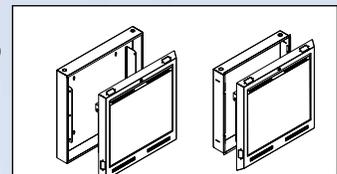
Slots provide installation adjustment for frame-to-backbox alignment.

Device cutouts with covers mount optional low voltage controls.

Hold-down brackets secure non rackmount gear.

Tilt-out recessed or surface wall cabinet

Lowell's L87 Series surface and recessed wall cabinets provide tilt-out operation for installing rackmount *or* non-rackmount electronics in schools, training facilities, retail stores, and anywhere a tilt-out wall cabinet with locking security is desired. Versatile units are suitable for installation in brick, concrete block, or 16" stud wall construction. Both styles include adjustable 3RU mounting rails plus two (2) hold-down brackets for securing non rackmount components such as consumer DVD players. The innovative design allows for field installation (optional) of low voltage controls and devices such as on/off indicator lights, switches, microphone connectors, phono jacks, or volume controls. Easy installation of these optional devices is provided by punched cutouts with Decora®-style blank cover plates installed to fill unused positions. Each cabinet also incorporates ventilation slots for air circulation, knockouts for conduit access, and adequate space for internal installation of an E.O. Box. The assembly is finished in Lowell's neutral, network gray powder epoxy.



L87-5R
Recessed backbox and cabinet-frame

L87-5S
Surface backbox and cabinet-frame

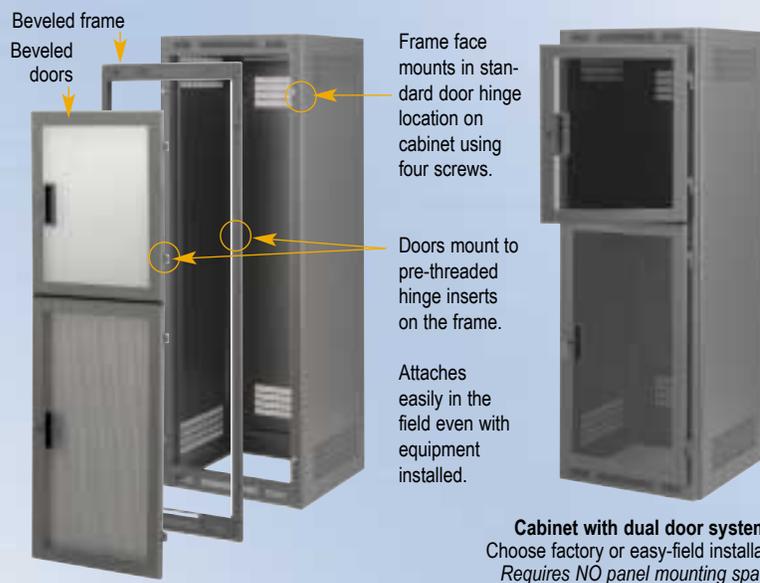
Tilt-out Wall Cabinet

Model	Mounting Style	Panel Space	Useable Depth (vertical-for equip.)	Cabinet-Frame W x H x D	Backbox W x H x D	Projection (from wall)	Cutout Size W x H
L87-5R	Recessed	5.25" (3RU)	17.5"	29" x 29" x 1.81"	26" x 26" x 4"	1.81"	26" x 26"
L87-5S	Surface	5.25" (3RU)	17.5"	29" x 29" x 1.81"	29.125" x 29.125" x 4"	5.81"	N.A.

Rackmount Accessories

Lowell's dual door system allows you to easily separate and secure equipment in a single cabinet installation. Attractive "boardroom quality" solution features a beveled edge frame that face mounts to the cabinet without covering valuable panel space. The frame includes threaded inserts for attaching up to two doors with left or right hinging. The frame and doors will be factory mounted when ordered with the cabinet or may be easily field installed without drilling or removing prewired equipment.

Dual security system can be added to all Lowell ganging racks, floor and sectional wall cabinets. The steel frame is 1"D and accepts standard 1"D doors noted in solid steel, Plexiglass (-P) or perforated steel (-PF). For security, top and bottom doors are keyed differently. Top doors include the standard front door lockset (black); bottom doors include the same lockset as the rear door (chrome) and are suffixed with -RL for "rear door lock".

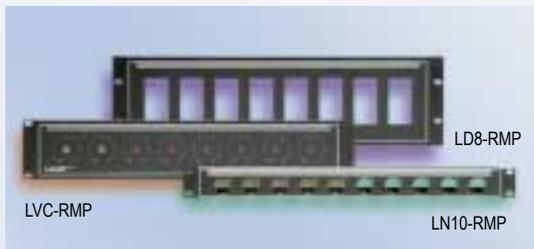


Cabinet with dual door system
Choose factory or easy-field installation.
Requires NO panel mounting space!

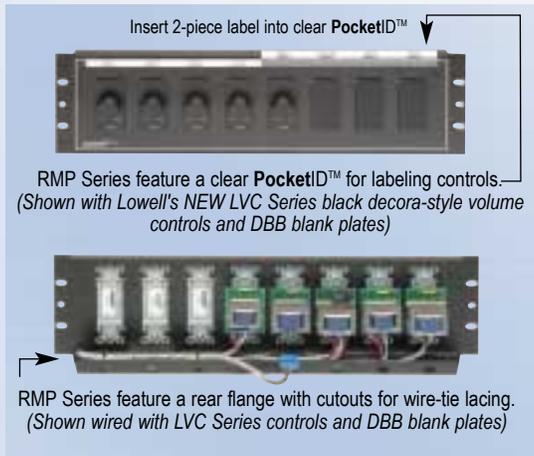
Dual Door System for Racks and Cabinets

Door Frame (1"D)	Mounts Rack Height	Top Door (1"D) (order separately)*	Top Door Panel Space	Bottom Door (1"D) (order separately)*	Bottom Door Panel Space	Mounts to Lowell Rack and Cabinet Models
L46-77	77.125" (44RU)	*L2150-36(-P)(-PF)	36.875" (21RU)	*L2150-42(-P)(-PF)-RL	40.375" (23RU)	L279-77, L278-77, L277-77, L275-77, L268-77, L267-77, L265-77, L262-77, L260-77
L46-70	70.125" (40RU)	*L2150-28(-P)(-PF)	28.125" (16RU)	*L2150-42(-P)(-PF)-RL	42.125" (24RU)	L279-70, L278-70, L277-70, L275-70, L268-70, L267-70, L265-70, L262-70, L260-70
L46-61	61.375" (35RU)	*L2150-24(-P)(-PF)	24.625" (14RU)	*L2150-36(-P)(-PF)-RL	36.875" (21RU)	L279-61, L278-61, L277-61, L275-61, L268-61, L267-61, L265-61, L262-61, L260-61, L253-61, L250-61
L46-42	42.125" (24RU)	*L2150-17(-P)(-PF)	17.625" (10RU)	*L2150-24(-P)(-PF)-RL	24.625" (14RU)	L277-42, L267-42, L265-42, L262-42, L260-42, L253-42, L250-42, L259-42
L46-36	36.875" (21RU)	*L2150-12(-P)(-PF)	12.875" (7RU)	*L2150-24(-P)(-PF)-RL	24.625" (14RU)	L267-36, L265-36, L262-36, L260-36, L253-36, L250-36, L258-36, L259-36

*Standard door (without suffix) is solid steel. To order Plexiglas door suffix -P; to order perforated steel door suffix -PF. Additionally, bottom doors include a suffix -RL for rear door lock. If you prefer the top door to be keyed to match the rear door, please suffix the top door with -RL instead.



RMP Series



RMP Series feature a clear **PocketID™** for labeling controls. (Shown with Lowell's NEW LVC Series black decora-style volume controls and DBB blank plates)

RMP Series feature a rear flange with cutouts for wire-tie lacing. (Shown wired with LVC Series controls and DBB blank plates)

19"W rackmount device panels

RMP Series present a clean and organized solution for mounting system devices in minimal rack space. All feature a 19" steel panel finished in black with a screened Lexan® overlay with integral 1/2" clear **PocketID™** area for label strip identification, control cutouts, hardware, and a rear lacing flange for wire management*. All controls are ordered separately. *Label making file (MSWord format) may be downloaded from the Lowell website to create job-specific labels.* (*lacing flange has been added to the previously introduced Model LVC-RMP)

Model LD8-RMP is 3RU and mounts up to eight Decora-style devices including Lowell's LVC-D Series* volume controls (now available in black to match the panel). Blank Decora-style filler plates in satin black (Model DBB-4) may be ordered to fill unused positions.

Model LVC-RMP is 2RU and mounts up to eight Lowell LVC-RM Series volume controls. Blank filler plugs are included for unused positions.

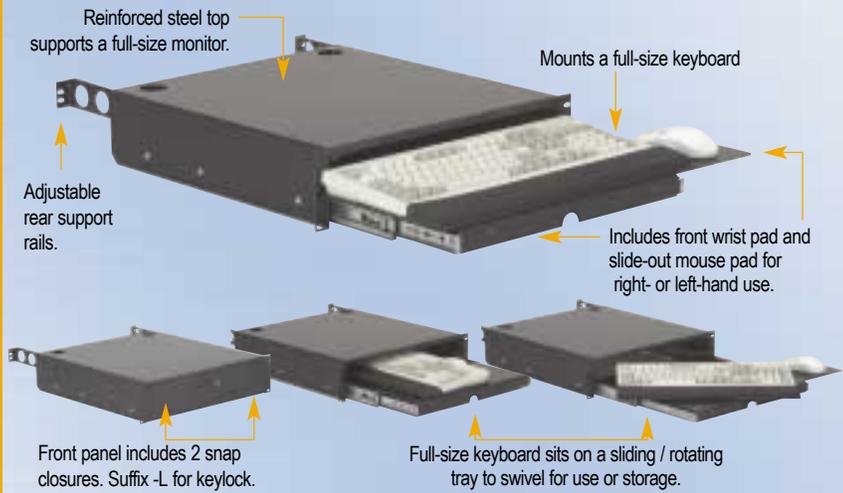
Model LN10-RMP is 1RU and mounts up to ten Neutrik D-Series connectors or Switchcraft E-Series (by others). Blank filler plates may also be ordered from Neutrik (Neutrik #DBA).

Rackmount Device Panels with PocketID™

Model	Description	Dimensions
LD8-RMP	Rackpanel-3RU for 8 LVC-D Series controls or other Decora devices*	19"W x 5.25"H
LVC-RMP	Rackpanel-2RU for 8 LVC-RM volume controls**	19"W x 3.5"H
LN10-RMP	Rackpanel-1RU for 10 Neutrik "D-Series" connectors	19"W x 1.75"H
DBB-4	4-Pack, decora-style blank black plates to fill unused positions in LD8-RMP	

*Lowell LVC-D Series decora-style volume controls are available in black, ivory, or white; choose 25, 50 or 100W.
**Lowell LVC-RM Series standard volume controls include a black knob to match the panel.; choose 25, 50 or 100W.

Rackmount Accessories



Keyboard / Monitor shelf - Heavy duty

Model L29K is a reinforced keyboard shelf engineered to mount an extended keyboard and support a full-size computer monitor. Heavy-duty assembly features a slide out shelf with a rotating tray to accept a standard (18"W) keyboard. Simply mount the keyboard to the tray and swivel into user or storage position. When the drawer is closed, a snap-close panel secures the drawer. A standard keylock is also available; suffix -L.

Each keyboard drawer also includes a full-length wrist pad and a mouse pad extension that slides for right- or left-hand use. 19"W x 20"D drawer with 16" extension mounts on front and rear rails and is reinforced on the top for heavy equipment support. Panel height is slightly larger than 2RU (4.34"H) yet shouldn't pose a space problem as the top shelf is designed to support monitors of varying heights. Finish is black powder epoxy.

RMK Series custom rackmount kits

Contact Lowell when you need a shelf with custom face panel to mount and secure non-rackmount electronics. Shelf/panel assemblies are made to your specifications. for a professional and aesthetically consistent method of mounting electronic components. Specify satin or textured black powder epoxy finish.



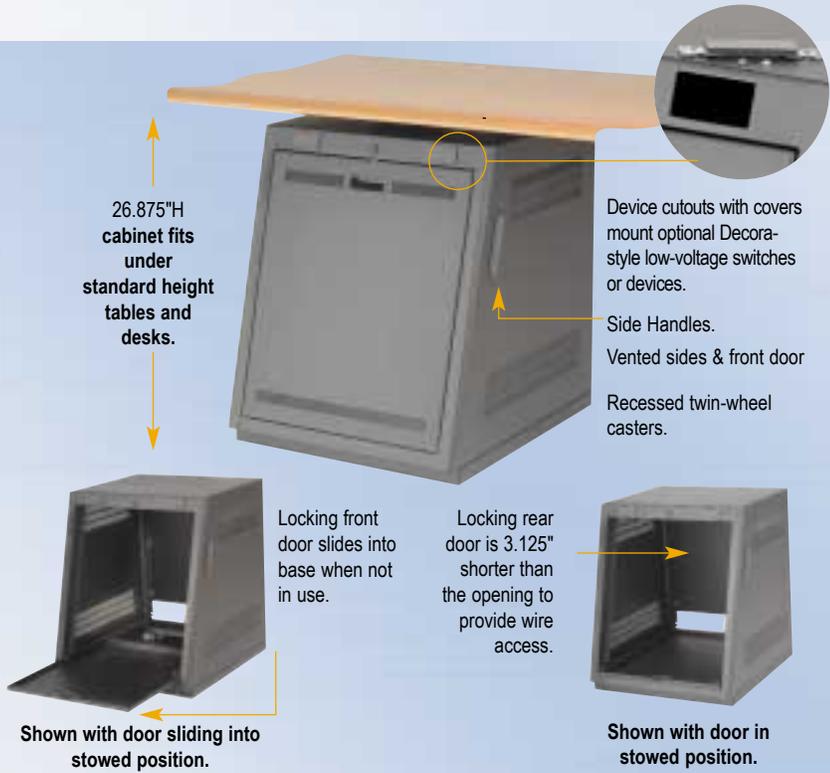
2RU RMK shown with mounted component

Under counter rolling rack

Model L45-21 slope-front rolling rack fits under work surfaces to provide rollout convenience to electronics. Model features side handles, casters, a unique "stow-away" door, and two cutouts for external mounting of accessory switches or controls. Rack is 26.875"H (including casters).

Ergonomic design features 12RU* of mounting space on a 15° slope for comfortable viewing of equipment while seated. The locking front door opens from the top and stores in the lower track area of the base. Stowing door design resolves the common problem of "swing-out" doors blocking equipment in neighboring racks. The locking rear door is 3.125" shorter than the opening for convenient wire access.

Rack also features two cutouts with cover plates above the front door for optional mounting of Decora-style low voltage switches or devices. External switch accessibility without unlocking the cabinet can be an attribute in many applications. Construction is 16-gauge steel. Finish is Lowell's black powder epoxy.



Under Counter Rolling Rack

Cabinet Model	Panel Space*	Overall Height with casters	Overall Width	Overall Depth bottom / top	Fixed Rails Installed	Front Door recessed	Rear Door recessed	Decora Cut-outs w/cover plates	Casters
L45-21	21.125" (12RU)	26.875"	22.187"	25.5" / 18.578"	1pr.	Lift-off, stowing	L7-1919	2	twin wheel

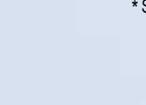
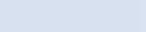
*Racking depth in the 15° sloping top 9RU is 17.1" to 20.3"; racking depth in the 15° sloping bottom 3RU is 13.7", 7.2", and 1" respectively.

Speaker Driver Specifications - Revised

Updates August 2002 catalog pages 54-56 (drivers) and pages 34-53 (speaker packages).

Lowell's entire selection of drivers was retested in 2003 using industry standard TEF measurement equipment and methods. This uniform testing procedure along with the addition of Thiele-Small parameters on specification sheets and EASE data (go to www.lowellmfg.com) provides a more thor-

ough analysis of how Lowell's high performance and commercial drivers perform and how they compare to those of other quality manufacturers. These specifications update driver information in the August 2002 catalog on pages 54-56 and speaker package information on pages 34-53.

Driver Model	Size	Power Rating	Type	Ceramic Magnet	Frequency Response	Dispersion	SPL		Depth (w/o xfmr)	Weight (w/o xfmr)	70V Transformer Choices	
							1W / 1M	101dB Peak			Suffix	Model*
 12P150	12"	150W	Coaxial Com-pression	38 oz. LF 7.7 oz. HF	30Hz - 20kHz±5dB 40Hz - 20kHz Nominal	70°	96dB Avg 101dB Peak	7.13"	9.75 lbs.	100W: TLM10070A, TLS10070 32W: TLM3270A, TLS3270		
 10P125	10"	125W	Coaxial Com-pression	38 oz. LF 7.7 oz. HF	34Hz - 20kHz±6dB 34Hz - 20kHz Nominal	95°	96dB Avg 101dB Peak	6.2"	8.9 lbs.	100W: TLM10070A, TLS10070 32W: TLM3270A, TLS3270		
 8P100	8"	100W	Coaxial Com-pression	38 oz. LF 7.7 oz. HF	50Hz - 20kHz±6dB 50Hz - 20kHz Nominal	110°	95dB Avg 101dB Peak	5.4"	8.7 lbs.	100W: TLM10070A, TLS10070 32W: TLM3270A, TLS3270		
 8A50	8"	50W	Coaxial	20 oz. LF 2 oz. HF	40Hz - 20kHz±6dB 40Hz - 20kHz Nominal	110°	90dB Avg 95dB Peak	3.75"	3.5 lbs.	32W: TLM3270A, TLS3270 16W: TLM1670A, TLS1670 8W: TLM870		
 6A40	6.5"	40W	Coaxial	10 oz. LF 2 oz. HF	40Hz - 20kHz±6dB 40Hz - 20kHz Nominal	150°	88dB Avg 91dB Peak	3.0"	2.0 lbs.	32W: TLM3270A, TLS3270 16W: TLM1670A, TLS1670 8W: TLM870		
 4A30 <i>Avail July '04</i>	4"	30W	Coaxial	10 oz. LF 2 oz. HF	65Hz - 20kHz±6dB 40Hz - 20kHz Nominal	150°	89dB Avg 94dB Peak	3.0"	2.0 lbs.	16W: TLM1670A, TLS16700 8W: TLM870 4W: TLM470		
 8S100	8"	100W	Subwoofer w/passive crossover	33oz.	30Hz - 175Hz±4dB 25Hz - 175Hz Nominal	Omni-Directional	85dB Avg 89db Peak	4.25"	5.4 lbs.	100W: TLS10070		
 JR410	4"	15W	High Com-pliance	10 oz.	100Hz - 14kHz ±6dB 100Hz - 16kHz Nominal	170°	91dB Avg 97dB Peak	2.08"	1.7 lbs.	4W:TLM70, TLM25, TLM72 TLM470, TLM425 8W:TLM870, TLM825		
 CT8320	8"	25W	Coaxial	18.7 oz. LF 2.1 oz. HF	48Hz - 18kHz ±6dB 48Hz - 19kHz Nominal	100°	93dB Avg 100dB Peak	3.12"	3.7 lbs.	4W:TLM470, TLM425 8W:TLM870, TLM825 16W:TLM1670		
 CT830	8"	20W	Coaxial	10 oz. LF 2.1 oz. HF	50Hz - 17.5kHz ±6dB 50Hz - 19kHz Nominal	85°	96dB Avg 100dB Peak	3.0"	2.4 lbs.	4W:TLM70, TLM25, TLM72 TLM470, TLM425 8W:TLM870, TLM825		
 810	8"	15W	Dual cone	10 oz.	45Hz - 13kHz ±6dB 45Hz - 18kHz Nominal	120°	95dB Avg 100dB Peak	2.84"	2.0 lbs.	4W:TLM70, TLM25, TLM72 TLM470, TLM425 8W:TLM870, TLM825		
 805	8"	12W	Dual cone	5 oz.	55Hz - 12.5kHz ±6dB 55Hz - 18kHz Nominal	120°	93dB Avg 98dB Peak	2.688"	1.3 lbs.	4W:TLM70, TLM25, TLM72 TLM470, TLM425 8W:TLM870, TLM825		
 8C10MR	8"	15W	Moisture Resistant	10 oz.	70Hz - 4.7kHz ±6dB 50Hz - 8kHz Nominal	120°	95dB Avg 100dB Peak	2.84"	2.0 lbs.	4W:TLM70, TLM25, TLM72		
 8C51MR	8"	12W	Moisture Resistant	5 oz.	65Hz - 5.2kHz ±6dB 50Hz - 8kHz Nominal	120°	92dB Avg 97dB Peak	2.675"	1.3 lbs.	4W:TLM70, TLM25, TLM72		
 8C10DVC	8"	15W	Dual Voice Coil	10oz.	55Hz - 7.5kHz ±6dB 50Hz - 10kHz Nominal	120°	93dB Avg 97dB Peak	2.84"	2.0 lbs.	4W:(2)TLM70, (2) TLM25		
 FSR108	8"	12W	Fire Retardant	10oz.	45Hz - 15.5kHz ±6dB 45Hz - 20kHz Nominal	120°	94dB 97dB**	2.84"	1.98 lbs.	4W:TLM70, TLM25		
 3SC8	3"	2W	General 8 ohm	2.35oz.	350Hz - 8.5kHz ±6dB 200Hz - 12kHz Nominal	170°	91dB Avg 97dB Peak	1.25"	7.5 oz.	---		
3SC45	3"	2W	General 45 ohm	2.35oz.	350Hz - 8.5kHz ±6dB 200Hz - 12kHz Nominal	170°	91dB Avg 97dB Peak	1.25"	7.5 oz.	---		

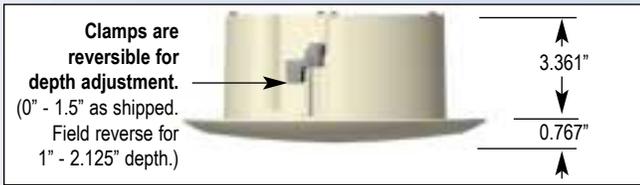
* Suffix Model with transformer selection and drop the letter "L" from 100W, 32W, & 16W transformers (Ex: 12P150-TM10070); drop the letters "L" and "M" from 8W & 4W transformers Ex: 8A50-T870).

◆ **Horn Speaker Assembly - 15W UNIHORN™ with Trim Ring and Grille** Available June or July '04



Horn includes an aluminum trim ring and press-fit aluminum grille for an attractive architectural solution.

Aluminum trim ring ships mounted to horn.



Compact horn with grille mounts into 4" D spaces

Lowell's LUH-15T UNIHORN™ is engineered with the precision of a Swiss-army knife offering a complete array of features and versatility in its compact 3.361" D size. The 15W universal-use horn has multiple patents pending with its self-contained aluminum housing, contoured aluminum trim ring and press-fit aluminum grille that projects a mere 0.767" with no visible hardware. The unique re-entrant horn is engineered to provide labor-saving installation in brick, concrete block, plaster and drywall while achieving clear intelligibility, durable performance and architectural integrity. The UNIHORN™ mounts indoors or out, using adjustable clamps or screws; it installs with or without a 4" D backbox (order separately) in recessed or surface applications, and provides a finished appearance using the factory mounted trim ring and fine perforated grille included. Additionally, the UNIHORN™ will accept a standard 8" speaker grille and backbox if desired (see accessories). Simple 2-wire hook up, dual capacitor circuitry, and reliable weather resistant performance make this 15W, 105dB horn ideal for standard or supervised paging and signaling applications.

UNIHORN™ construction is aluminum with stainless steel hardware and a gasketed moisture-seal rear cover. Connections are made to a rear metal clamp and the 25/70V transformer is screwdriver adjustable on the front of the unit. The horn with aluminum trim ring and grille weigh 3.7 lbs. Assembly finish is Network gray powder epoxy.

Options

LUH-BOX All-in-one aluminum surface / recessed box (10.5" Sq x 4" D) with knockouts on two sides and a universal rear mounting pattern. Finished in Network Gray.

LUH-TP Beveled-edge aluminum 11.5" Sq. trim plate overlaps LUH-BOX for a clean install. *Required for recessed applications only.* Finish is Network Gray.

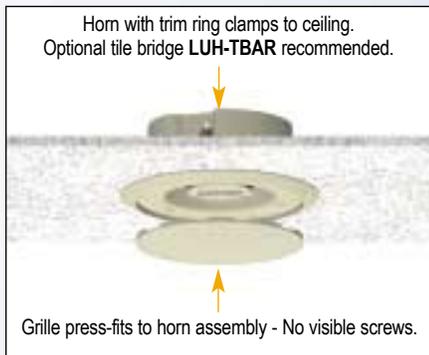
LUH-TBAR Tile bridge is recommended to distribute weight in ceiling applications.

Other Accessories

Standard 8" speaker backboxes and 8" grilles The LUH-15T horn will mount standard accessories if the supplied trim ring and grille are removed (please set transformer tap before screw mounting new grille to horn). Backboxes include recessed P68X, CP84, XCP84 and surface Models CB84 and CB84-SG. Please reference the Lowell catalog for companion 8" grilles for these boxes.

Benefits

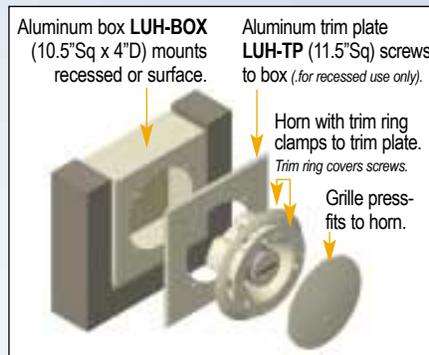
- Simple and fast installation in 4" D spaces
- Installs using clamps or screws into new or retrofit areas
- Includes an architectural aluminum trim ring and grille (will also accept 8" grilles & backboxes - order separately)
- Features dual capacitor circuitry for standard paging or supervised use.
- Easy 2-wire hook-up to rear access cable clamp.
- Front accessible transformer selection switch.
- Weather-resistant assembly for indoor or outdoor use.
- Integral seismic tie-off brackets.



Ceiling / Wall

Recessed with supplied grille
No Backbox

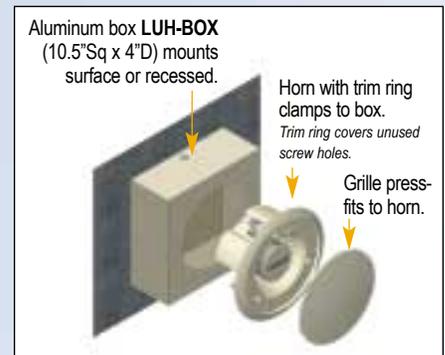
Applications: Great for sheetrock / plaster ceilings and walls, indoors or outdoors where finished architectural appearance is desired. Tile bridge recommended.



Recessed

Mounted with supplied grille,
4" D aluminum backbox and trim plate
(order backbox and trim plate separately)

Applications: Great for brick / concrete block walls, indoors or outdoors where finished architectural appearance is desired.



Surface

Mounted with supplied grille,
and 4" D aluminum backbox
(order backbox separately)

Applications: Great for brick / concrete block walls, indoors or outdoors where finished architectural appearance is desired.

LUH-15T Unihorn™ Re-entrant Compression Driver

Options

Horn Model	Power Rating	Frequency Response	Dispersion	SPL 1W / 1M	Impedance	Power Taps	Size	Cut-out Size	Accessories*
LUH-15T	15W	700Hz - 8kHz ±6dB	85°	105dB 1W/1M 118dB 15W/1M 116dB 15W/10ft.	Ohms: 5000, 2500, 1300, 666, 333, 89, 45	25V @ .48, .94, 1.8, 7.5, 15W 70V @ .9, 1.8, 3.8, 7.5, 15W	8" Dia x 3.361" D	7" Dia.	LUH-BOX Backbox for surface & recess (10.5Sq x 4"D) LUH-TP Trimplate-Recess (11.5" Sq) LUH-TBAR Tile bridge

*Standard 8" accessories will also mount LUH-15T if the supplied trim ring and grille are removed. Order backbox Models P68X, CP84, XCP84, CB84 or CB84-SG. Refer to the Lowell catalog for companion grilles.

◆ Convenient Speaker Package Assemblies

SB Series Coaxial Ceiling Assemblies

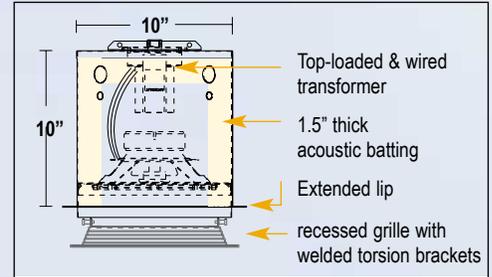
Ready-to-install systems with 8" or 6.5" driver offer a high performance and cosmetically clean solution for installing music/paging systems above acoustic tile or sheetrock. Assemblies ship with pre-loaded driver, wired transformer, and hardware-free grille. They are similar to Lowell's CN Series packaged assemblies (catalog page 40) with an extended lip on the backbox and an all-white grille that emulates a recessed lighting fixture. Like the CN Series, the SB Series includes Lowell's high performance coaxial driver Model 8A50 (8" 50W) or 6A40 (6.5" 40W) direct mounted to 10"D acoustic backbox Model IX810-EL or IX610-EL. The hardware-free grille Model SB8W-EL (included) features welded torsion brackets for fast and visually clean snap-in position mounting.

The SB Series speaker systems ship with a factory installed driver mounted directly to the inner flange of the backbox. The optional transformer is wired and mounted internally to the rear (top) of the backbox with terminations accessible through a metal clamp on an easy-access one-gang plate. The flange mounted driver removes the traditional weight bearing requirements / limitations from the system grille, allowing it to install using torsion springs instead of screws. This desirable grille mounting method combines the acoustic benefits of a substantial driver with the refined appearance of a visibly hardware-free grille.

System backbox Models IX810-EL and IX610-EL are the same size and volume with a different internal speaker flange to accept the factory mounted 8" or 6.5" driver respectively. The steel backbox is finished in black powder epoxy, measures 10"Dia x 10"D, and is lined with 1-1/2" thick acoustic batting. The system grille is steel painted white with regressed steps to emulate a lighting fixture. It measures 10.75"Dia. and includes welded torsion brackets for easy installation.



SB Series Speaker Assemblies



8A50 (50W)



6A40 (40W)



DS Series Dual Cone Wall / Surface Assemblies

Speaker assemblies with 8-inch driver are easy-to-install paging and background music systems for school classrooms, medical offices, and anywhere that an attractive surface-mounting speaker is required. Slope front Model DSL810-72 and square Model DSQ810-72 feature 15W dual cone driver Model 810 with a 70/25V transformer factory mounted to Lowell's popular SG-8 beveled edge grille. The system backboxes (slope-front and square) are lined with 1-1/2" thick acoustic batting and feature a universal mounting hole pattern on the rear and knockouts for 500 Series wire-mold top and bottom for trouble free installation. The assembly is finished in Lowell's neutral network (computer) gray powder epoxy.

Speaker System Assemblies

8" System Model	Driver Model	Transformer Model	Transformer Taps	Backbox Model	Grille Model	T-Bridge Required (order separately)
SB Series - 50W 8" Direct Radiator Coaxial Ceiling Assemblies						
SB8A-IX10EL	8A50*	---	---	IX810-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
SB8AT870-IX10EL	8A50*	TLM870	70V: 8, 4, 2, 1W	IX810-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
SB8ATM16-IX10EL	8A50*	TLM1670A	70V: 16, 8, 4W	IX810-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
SB8ATM32-IX10EL	8A50*	TLM3270A	70V: 32, 16, 8W	IX810-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
SB Series - 40W 6.5" Direct Radiator Coaxial Ceiling Assemblies						
SB6A-IX10EL	6A40*	---	---	IX610-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
SB6AT870-IX10EL	6A40*	TLM870	70V: 8, 4, 2, 1W	IX610-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
SB6ATM16-IX10EL	6A40*	TLM1670A	70V: 16, 8, 4W	IX610-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
SB6ATM32-IX10EL	6A40*	TLM3270A	70V: 32, 16, 8W	IX610-EL (10"D)	SB8W-EL (10.75"Dia.)	LBS8-R1
DS Series - 15W 8" Dual Cone Wall / Surface Assemblies						
DSL810-72	810*	TM72	70/25V: .5, 1, 2, 4W	Slope-front ()	SG-8 (11.375 Sq.)	N.A. mount to E.O. box
DSQ810-72	810*	TM72	70/25V: .5, 1, 2, 4W	CB84-SG (4"D)	SG-8 (11.375 Sq.)	N.A. mount to E.O. box

* See page 5 for driver specifications.

◆ iMount™ and LT Series Speaker Systems - Upgrades and UL Listings



iMount™ Features Upgraded Hardware

iMount™ Series performance speaker systems for flying or bolting to Unistrut® offer consultants and integrators **over 130 ready-to-install-systems** with a variety of performance and aesthetic options. The complete series has been upgraded to include forged 1/4" - 20 eyebolts for demanding flown installations and a flush 4" x 4" coverplate for easy yet unobtrusive access to wire connections.

Selected models are now being UL Listed (contact factory for ship date and model offering).

Lowell's iMount™ series features a choice of five drivers (12P150, 10P125, 8P100, 8A50, and 8S100) wired in a choice of three rectangular (3, 2, 1 cu.ft.) or three cylindrical (2, 1.25, 0.75 cu.ft) enclosures lined with 1-1/2" thick acoustic batting. Options include choice of transformer and grille. See catalog pp 34-37.

iMount™ Q-Series New Premium Performance Systems.

Lowell's 3cu.ft. rectangular iMount Q-Series packages are now available with a new 200-watt 'consultant's choice' 12" driver. Quality systems have been designed for high performance and high power handling. The premium 12Q200 driver features a 4" voice coil, cast aluminum basket, premium crossover engineering, and massive magnet structures on the woofer and compression tweeter: Model numbers with system specifications are shown below. A cylindrical 2 cu.ft. version (IMC12Q Series) will also be available shortly with the same selection of transformers.

Please allow 4-8 weeks lead time as these premium performance systems are built-to-order.



IM12Q-3SW

iMount™ Q-Series System Assemblies

System Model	Driver Model	Driver Rating	Transformer (70V)	Grille Style*	System Volume	System Dimensions	System Response	System Dispersion	Sensitivity 1W / 1M
200W 12" Assemblies with High Performance Compression Driver									
IM12Q-3SW	12Q200	200W	---						
IM12Q-TS100-3SW	12Q200	200W	TLS10070	Square,	3cu.ft.	15.5"H x 18"W	50Hz - 20kHz	100° @	100dB
IM12Q-TM100-3SW	12Q200	200W	TLM10070A	White*		x 24"L	+6dB	2000Hz -6dB	(half-space)
IM12Q-TS32-3SW	12Q200	200W	TLS3270						
IM12Q-TM32-3SW	12Q200	200W	TLM3270A						

iMount rectangular systems are packaged with a square white grille. To order a different grille style, change the model suffix from **SW** (square white) to **SB** (square black), or **RW** (round white). Note: IMQ Series premium performance systems are built-to-order, so please allow 4-8 weeks lead time.



New 2' x 2' assembly with 810 or 805 driver, transformer, 8XD4 backbox and 2' x 2' grille.

LT Series Tile Speakers - New 2' x 2' Value Models

By popular request, Lowell now offers two new 2' x 2' assemblies that are value priced using dual cone driver models 810 (15W) and 805 (12W). Ready to install systems include a dual voltage transformer with terminations exiting through a metal clamp on the 8XD4 protective backbox. For models with 20W, 40W, and 50W high performance drivers and acoustic 0.8 cu.ft. backbox see catalog pages 38-39.

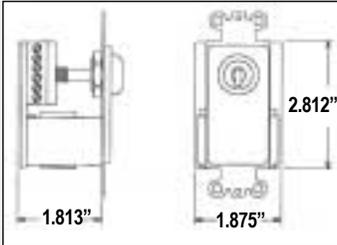
Order 2' x 2' Model: LT2810-72BB

Order 2' x 2' Model: LT2805-72BB.

(See page 5 in this booklet for driver specifications)

Volume Controls and AC Power Strips

KL100 Series patented keylock volume controls are now a compact 1-gang size (formerly 2-gang) with power handling to 100 watts. Keylock secured devices are ideal for applications where the ability to make volume adjustments is limited to authorized individuals. Controls are offered with a Decora-style two-piece wall plate for versatile application in single or multi-gang installations. Choose white, ivory, black, or stainless steel plate. Stainless models have a black or white subplate and will be available in a 1-piece plate version by 4th quarter. All feature 3dB per step attenuation and phoenix-style removable screw termination for pre-wire with capacity for 14ga wire. Models with priority relay (24 VDC @5mA) allow emergency and paging signals to bypass (override) the attenuator. Mounting depth is a mere 1.75 inches to fit into standard electrical boxes.



Mounting depth is a mere 1.75 inches to fit into standard electrical boxes.

Attenuators – KL Series

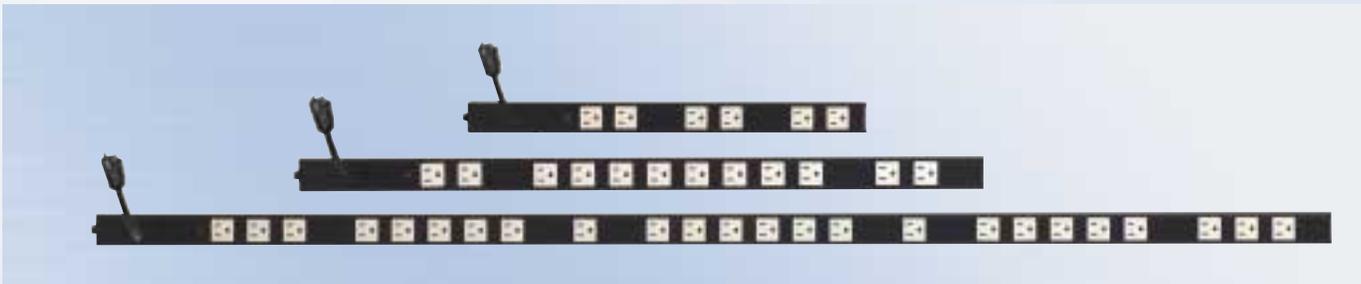
Replaces 2-gang KL10, KL35, KL100

Plate Choices - 1 Gang Decora-Style

Model (1-gang)	Power Rating	Type	Switch Type	Switch Positions	Attenuation Step / Total	Depth	White (Suffix Model)	Black (Suffix Model)	Ivory (Suffix Model)	Stainless w-white (Suffix Model)	Stainless w-black (Suffix Model)
KL100*	100W	Auto-trans	Key	10-off	3dB / 33dB**	1.75"	-DW	-DB	-DI	-DSW	-DSB
KL100-PA*	100W	Priority-trans	Key	10-off	3dB / 33dB**	1.75"	-DW	-DB	-DI	-DSW	-DSB

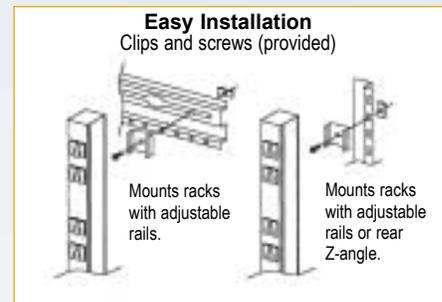
*Suffix Model with plate choice: -DW (Decora White), -DB (Decora black), DI (Decora Ivory), DSW (Decora stainless-white subplate), DSB (Decora stainless-black subplate)

** Models have two steps of 6dB each before off.



Easy-Mount AC Power Strips with Plug

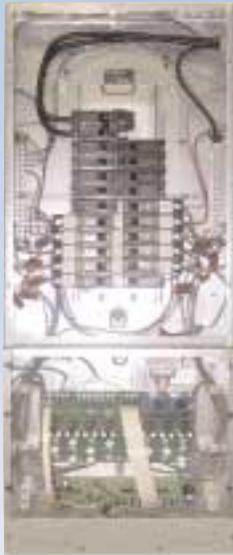
ACS Series power strips are 15A relocatable devices that provide convenient access to power in racks and cabinets. Easy to install AC power strips feature a mounting clip with single screw and terminate to a cord with molded plug (see lengths below). ACS Series is UL Listed and features single receptacles with spacing conducive to plugging in large power supplies. For secure operation of larger/heavier supplies in a vertical rack orientation, a bag of cable ties is provided for installation convenience. Each receptacle is white for easy visibility inside a dark cabinet. Model ACS-1506 has six receptacles and measures 20"L, ACS-1512 has twelve and is 32"L, ACS-1524 has 24 receptacles and is 60"L. All three sizes include transient voltage surge suppression (UL 1449-2 Listed) with an LED indicator and a 15 Amp circuit breaker.



AC Power Strips - Relocatable

Model	Load Rating	Outlets	Termination	Surge Suppression 400V rating Max. surge 6000V	Circuit Breaker	On / Off Switch	Size
 UL Listed Power Strips							
ACS1506	15A	6 Single - 125 VAC	6ft. cord	Yes - UL1449-2	Yes	No	20"L x 1.5"W x 1.625"H
ACS1512	15A	12 Single - 125 VAC	12ft. cord	Yes - UL1449-2	Yes	No	32"L x 1.5"W x 1.625"H
ACS1524	15A	24 Single - 125 VAC	12ft. cord	Yes - UL1449-2	Yes	No	60"L x 1.5"W x 1.625"H

◆ Electronics - Sequentially Controlled AC Loadcenter System



ACLC-100-20-SC248
(shown wired)

Mount switch
(provided) here or at
a remote location.



SC248 Sequencer
(includes accessories shown)



Snap-in bushings

Cable-ties

Transformer

Remote switches
(1keylock, 1 pushswitch)
with plug-in cable.



200A loadcenter
(part of ACLC-200-30-SC248)



100A loadcenter
(part of ACLC-100-20-SC248)

Features

- One switch remote power control system provides time sequenced AC power to system components.
- Systems include sequencer, 2 remote switches and loadcenter.
- Sequencer Model ACSC-248 is UL508A Listed and controls up to 24 circuits with 8-steps and up to 3 circuits per step.
- Loadcenters are offered with 1-phase (100A or 200A) or 3-phase (125A or 225A) main breaker.
- Remote switches can be installed on the sequencer or at a remote location (1 key switch, 1 rocker switch provided)
- Automatic shut-down feature protects system in case of power failure.
- Interface for alarm systems or master control allows 'lock-on', lock-off' or 'switch-locked' functions.
- Set & change sequence operation with plug-in cables.
- Adjust sequence delay from 0.5 to 10 seconds.

UL Listed AC LoadCenter Systems with Sequencer

Lowell's ACLC Series sequenced AC loadcenter systems provide one switch remote control of circuit breakers for time sequenced AC power distribution to sound system components.

UL Listed ACLC Series is engineered to provide easy ordering and simple installation. Package systems include Model ACSC-248 sequencer bundled with two remote switches and a Cutler Hammer loadcenter (choose 1-phase 100A or 200A; or 3-phase 125A or 225A main breaker). Lowell also offers individual 20A and 30A breakers (single or dual) with plug-in control cable. Breaker control cable simply plugs in to the sequencer to set and change sequence operation - no wires to strip. Sequence delay is easily set from 0.5 to 10 seconds using a flat blade screwdriver.

To configure a loadcenter with more than one sequencer or to retrofit an existing Cutler Hammer or compatible loadcenter, sequencer Model ACSC-248 may be ordered separately.

Sequentially Activated AC Loadcenter System

Accessories

System Model	Includes loadcenter	Includes Sequencer	Includes Switches	Accessories (order separately)
ACLC-100-20-SC248	100A main breaker 1-phase 20space 20circuit	ACSC-248 24 circuit, 8-step	1 keylock, 1 rocker	Order individual breakers
ACLC-200-30-SC248	200A main breaker 1-phase 30space 40circuit	ACSC-248 24 circuit, 8-step	1 keylock, 1 rocker	Order individual breakers
ACLC-3P-125-30-SC248	125A main breaker 3-phase 30space 42circuit	ACSC-248 24 circuit, 8-step	1 keylock, 1 rocker	Order individual breakers
ACLC-3P-225-42-SC248	225A main breaker 3-phase 42space 42circuit	ACSC-248 24 circuit, 8-step	1 keylock, 1 rocker	Order individual breakers

Accessories

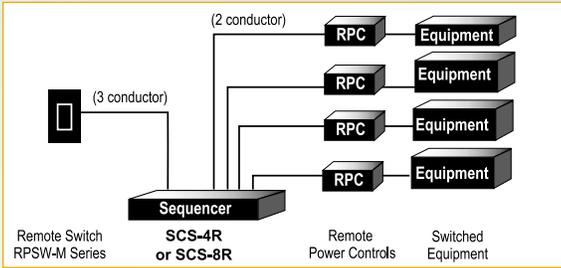
Individual Breakers (order separately)

ACRB-20-1	Remote breaker 20A circuit single pole, pulse solenoid operated
ACRB-20-2	Remote breaker 20A circuit two pole, pulse solenoid operated
ACRB-30-1	Remote breaker 30A circuit single pole, pulse solenoid operated
ACRB-30-2	Remote breaker 30A circuit two pole, pulse solenoid operated
ACB-20-1	Standard breaker 20A circuit, single pole

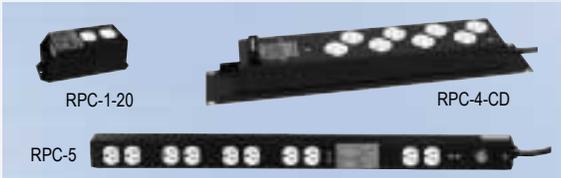
Sequencer (included with system - order separately if adding a second sequencer or retrofitting an existing Cutler Hammer or compatible loadcenter)

ACSC-248	Sequencer control unit for ACLC Series, 24 circuits, 8 step adj time delay
----------	--

Electronic Accessories



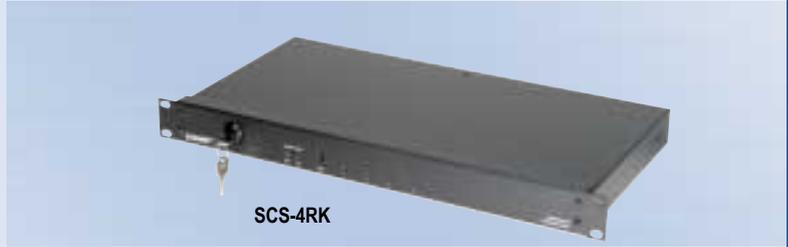
Typical Application (SCS-4R shown)



Series RPC Remote Power Controls (required - order separately)



Series RPSW Remote Switches (optional - order separately)



Rackmount Sequencers with Rocker or Keyswitch

Models SCS-4R and SCS-8R are 1RU rackmount sequencers that provide time-delayed activation and de-activation of equipment that is connected to Lowell Remote Power Controls.

Model SCS-4R provides four control outputs and SCS-8R provides eight outputs. Each output can activate equipment connected to a maximum of ten Remote Power Controls (Series RPC - order separately). Additionally, each output also includes a separate auxiliary relay contact for sequenced operation of other devices.

Sequencers feature a 1RU chassis, variable time delay, LED status indicators, UL Listed power supply, and rocker or keyswitch activation. Optional switch(es) may also be used to activate the sequencer from remote location(s). (order Decora-style wall switch Model RPSW-MP or 1RU rackmount Model RPSW-MR separately.)

Rackmount AC Sequencing and Switching - Non loadcenter applications

Model	Control Outputs	Actuation*	Delay	Size (1RU)	Power
SCS-4R	4 (control 10 RPC ea.), 4 Aux. (5A max)	Rocker	0.5-10 sec. between steps	19"W x 1.75"H x 9"D	117VAC, 60Hz, 16W
SCS-4RK	4 (control 10 RPC ea.), 4 Aux. (5A max)	Key	0.5-10 sec. between steps	19"W x 1.75"H x 9"D	117VAC, 60Hz, 16W
SCS-8R	8 (control 10 RPC ea.), 4 Aux. (5A max)	Rocker	0.5-10 sec. between steps	19"W x 1.75"H x 9"D	117VAC, 60Hz, 16W
SCS-8RK	8 (control 10 RPC ea.), 4 Aux. (5A max)	Key	0.5-10 sec. between steps	19"W x 1.75"H x 9"D	117VAC, 60Hz, 16W

* Remotely located switches, connected to the rear barrier strip, may also be used; order wall switch Model RPSW-MP or rackmount RPSW-MR separately.



SMGA-5

Sound Masking Generator / 5W Amplifier

Model SMGA-5 is a masking generator with 5W amplifier. Compact 1RU device is ideal for small stand-alone masking installations (fig. 1) or masking with paging (fig. 2) installations. It may also be used to add masking capability to an existing paging system (fig. 3) or a zoned area (fig. 4).

The generator produces the pink noise signal for sound masking. The built-in amplifier (5W into 70V, 25V, or 8ohm) may be used for paging, music, or signaling sources. System controls include output level and an adjustable low pass filter, level adjustment for the auxiliary input signal, noise level, master level and individual tone controls for shaping bass, midrange, and treble frequencies.

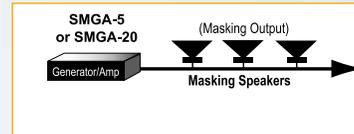


Fig. 1: Typical stand alone application.

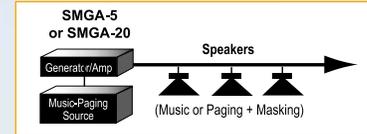


Fig. 2: Typical multi-purpose application masking with paging.

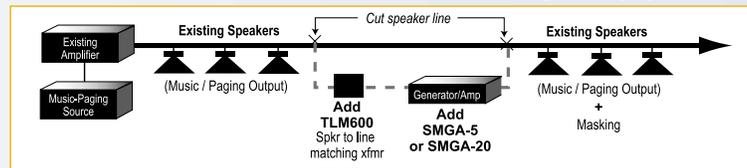


Fig. 3: Typical masking addition to an existing system using a line matching transformer and masking generator amplifier connected to the speaker line.

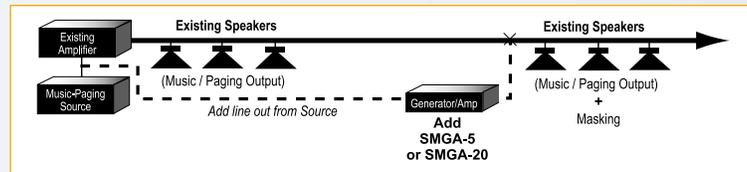


Fig. 4: Typical masking addition to an existing system using a generator amplifier connected to a new line out from the music-paging source.

Sound Masking Generator / Amplifier Specifications

Model	Type	Size	Generator Output Signal	Amplifier Aux. Input	Amplifier Output
SMGA-5	Generator/Amplifier	19"W x 1.75"H (1RU)	Pink noise	Hi-Z (500mv) line	5W into 70V, 25V, or 8ohm

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L250 / L253 Series

Sectional wall cabinets receive UL Listing

Series L250 and L253 sectional wall cabinets with 14"D and 18"D mounting sections respectively are now UL Listed. Both series are additionally available with a factory installed keylock instead of the Allen lock (standard) for securing the swing-out mounting section to the backbox. To order keylock option simply suffix the Model with -KL (ex: L253-36-KL). See 2002 catalog pages 14-15 or the website for additional information.



RSR-50

PilotPoint screws with Robertson square-head

Series RSR rack screws with Lowell's PilotPoint tip™ and Canadian favorite Robertson square-head design are offered with captive washers in convenient 50-piece bags; order RSR-50. Screwdriver bit accessory Model RSR-BIT may also be ordered if desired. RSR Series is part of Lowell's family of time-saving PilotPoint screws with easy-start tip and captive washers. Choose RSP Series Phillips finish head, RS Series Phillips truss head, and RSV Series Torx star post security head. Order in convenient bags or easy grip jars.



25LVC-DB, 50LVC-DB, 100LVC-DB

Decora-style volume controls in 'all-black' for rackmount use

Lowell's LVC Series one-gang volume controls are now offered with black Decora-style plate for use in racks and rackmount device panels. Choose 25W, 50W, or 100W Models 25LVC-DB, 50LVC-DB, or 100LVC-DB respectively. All are single gang and will mount along with other Decora-style devices into Lowell's LD8-RMP 3RU rackmount device panel with PocketID™ (see page 3 in this flyer).



MP16

Amplified monitor panel

Lowell's MP16 monitor panel with sixteen channels of visual monitoring and 16 x 1 selectable aural monitoring now features a new higher output 10W amplifier. All other features remain the same including a slim 2RU chassis 3-color LED display banks, 3" driver with push on/of switch, intuitive touch control switching, removable terminations for pre-wire convenience and pocket overlay for easy channel identification in the field. See page 84 in the 2002 catalog.