

"80K" SIREN/PA SYSTEMS



From left: UM183K, UM80K, and UM480K.

Gain control and flexibility with Unitrol™ 80K siren/PA systems from Federal Signal.

80K AMPLIFIER

The 80K family of siren/PA systems is built around the multi-purpose **UM80K** siren amplifier. This technologically advanced amplifier delivers superior performance and reliability in a wide variety of operating environments. The UM80K is designed for blow-out proof operation. In the event of a short circuit in the speaker or wiring, the amplifier automatically shuts down. Pair up UM80K amplifiers to create two-tone sound combinations that heighten the warning's audible impact. A UM80K amplifier can operate one or two 58-watt or 100-watt speakers.

CONTROLLERS

Two basic types of controllers are available for the 80K system. The first type consists of ultra-compact switches for motorcycle and under-cover applications. The second type is made up of small control panels designed for tight spaces and one-piece or remote installation.

80 AND 180 CONTROLLERS

Model **U80KM** is exclusively for Kawasaki motorcycles. It consists of a cable that connects the UM80K amplifier with control switches built into the motorcycle's handlebars. The switches activate Wail and Yelp siren tones, and the motorcycle's horn button can be used for Air Horn sound.

Model **UM180K** is ideal for un-marked cars, volunteers, and motorcycles. Users can choose from two connections to have three sounds (Manual, Wail, and Yelp Override™) or four sounds (Wail, Yelp Override™, Hi-Lo, and Hetro™ Override) available. This simple switch activates the siren and one warning light or flasher (15 amp light switching capacity).

183K CONTROLLER

The **UM183K** compact control panel provides control of emergency lighting and siren functions in a unit *less than 5 inches wide!* This model uses the rugged Unitrol slide-bar for activating lighting functions and a toggle switch for siren functions. Four color-coded lights indicate what position is active. The slide-bar has a total switching capacity of 60 amps with no internal or external relays required.

QUICK REFERENCE

FEATURES

- Wide variety of controllers available to suit any need.
- Rugged Unitrol™ switches built to last a minimum of 100,000 cycles.
- Heavy-duty polarized connectors assure quick and easy installation.
- No battery drain during Standby mode.
- UM80K amplifier automatically shuts down if a short circuit develops in the speaker or wiring.

APPLICATIONS

- All types of emergency vehicles

RELATED PRODUCTS

Speakers

Bulletin #6100

Compact Speakers

Bulletin #6101

DynaMax™ Speaker

Bulletin #6102

Siren sounds are activated with a three-position linear motion toggle switch. Position Zero deactivates the siren. Position One enables manual siren control from the vehicle's horn ring. Position Two activates automatic siren with override capability from the vehicle's horn ring.

280 AND 480 CONTROLLERS

All of these controllers are designed to fit into small spaces while providing full siren and PA functions and light control. Each model has six siren sounds (Manual Wail, Automatic Wail, Yelp, Yelp Override™, Hi-Lo, and Hetro™ Override) plus Air Horn and Intrusion Alarm. The control face is illuminated by a soft light for easy viewing at night. Separate indicator lights also let you know when light and siren functions are active. These controllers also give you the option of one-piece or remote installation.

The **UM280K** controller features siren and PA functions and the capacity to control one warning light or flasher (15 amps light switching capacity). The right-side is spring-loaded for operating the siren manually and activating override features with or without horn ring connections.

Both 480K controllers have all the features of the UM280K but also have the rugged Unitrol slide-bar for control of lightbars and/or multiple lights (60 amps light switching capacity). Slide-bar positions One and Two operate lights in progressive sequence without activating siren functions. Position Three turns on maximum lights with full siren. Rear lights, beacons, and flashing high beams can be easily sequenced with externally located wires. Model **U480K** uses a separate microphone and has a tape jack that enables the playing of recorded message over the PA. Model **UM480KR** uses the radio microphone for both radio and PA functions.

SWITCHPAKS

For added control of accessories, such as floodlights, alley lights gun locks, etc., custom switchpaks can be ordered and customized to meet your department's needs. **USP** models can have up to eight (8) switching functions prewired into them and be keyed to indicator lights, ready to operate.

MODEL NUMBERING SYSTEM

- 3 = Blackout
- 4 = Three-way switch (+12V)
- 5 = On/off (+12V)
- 7 = Momentary, ignition controlled (+12V)
- 8 = 3M Opticom, ground controlled

Examples: 1) Right alley, left alley, takedowns, and blackout is model **USP04-AC5553**; 2) Blackout, right alley, left alley, and gun lock release is model **USP04-AC5537**.

FEDERAL SIGNAL CORPORATION
Emergency Products

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HOW TO ORDER

1. Specify **UM80K** amplifier or **UDMK** dual-mode amplifier.
2. Specify control module.
 - U80KM** Kawasaki motorcycle siren system (UM80K amplifier included)
 - UM180K** Undercover siren controller with one warning light control circuit
 - UM183K** Siren controller with three warning light control circuits
 - UM280K** Siren/PA controller with one warning light control circuit
 - UM480K** Siren/PA controller with five warning light control circuits
 - UM480KR** Siren/PA controller with five warning light control circuits
3. Specify cables.
 - UMC083** Kawasaki motorcycle cable
 - UMC029** 180K controller cable
 - UMC029T** 180K dual-mode cable
 - UMC030-4** 4' cable
 - UMC030-15** 15' cable
 - UMC030T** 280K/480K dual-mode cable
4. Order accessories.
 - MNCT-SB** Noise-cancelling microphone
 - UNCT** Noise-cancelling microphone (heavy duty) for 280K/480K
 - UPA1** Microphone PA kit with MNCT-SB for 80K/180K
 - UPA3** Microphone PA kit with UNCT for 80K/180K
 - US85** Short bezel
 - US86** Tall bezel
 - USGT** Gun lock timer
 - UTAS** Temperature sensor (canine) switch
 - CAB-KCH** Remote cabinet for 280K/480K
 - CAB-KCH/AC** Remote cabinet with auxiliary pak for 280K/480K
 - CAB-KSU** Single-unit cabinet for 280K/480K
5. Order common microphone adaptor (if necessary).
 - UMA01** Single microphone
 - UMA04** Motorola Micor/Syntar/Convertacom
 - UMA10** Motorola 9000/Syntor/Spectra
 - UMA16** Motorola Maxtrax/300T/Astro
6. Order custom Switchpak (if necessary). Add "-AC####" (see "Model Numbering System" above) to complete model number.
 - USP02** Switchpak with two switching options
 - USP03** Switchpak with three switching options
 - USP04** Switchpak with four switching options
 - USP05** Switchpak with five switching options
 - USP06** Switchpak with six switching options
 - USP07** Switchpak with seven switching options
 - USP08** Switchpak with eight switching options

DIMENSIONS								
Model	Length		Width		Height		Ship. Weight	
	in.	cm.	in.	cm.	in.	cm.	lbs.	kg.
UM80K	5.0	12.7	5.0	12.7	3.0	7.6	5.0	2.3
180K	1.8	4.6	1.1	2.8	1.4	3.6	1.0	0.5
183K	3.3	8.4	4.5	11.4	2.0	5.1	1.0	0.5
280K/480K	4.5	11.4	5.0	12.7	1.8	4.6	2.0	0.9

Warning: Sirens and Speakers may produce LOUD sounds necessary to request the right-of-way. Sirens and Speakers may cause hearing damage. Wear hearing protection.

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