

TOUCHMASTER™ SERIES SIRENS



The Touchmaster™ light and siren control provides the ultimate in functionality and ease of use.

Federal Signal's Touchmaster™ series of siren and public address systems, manufactured by Unitrol®, provides the ultimate in reliability, functionality, and ease of use. Simplified switching virtually eliminates fumbling for controls while on a call or in pursuit.

All Touchmaster models feature five siren sounds (Yelp, Wail, Hi-Lo, Ultra Hi-Lo®, Futura, and Hetro®), horn ring transfer, SWEEP/LOCK®, air horn sound, Alarm, direct access PA, flashing indicator lights, dimmable panel lights, audible "Clicker" indicator, and ACP technology.

MODELS FOR EVERY NEED

Standard models are available, from either a basic toggle switch to a slide-bar for complete warning equipment control. Optional features may be specified for maximum customization.

Model UTM1 includes a toggle switch that can operate a warning light or a headlight flasher. UTM3 and UTM4 models come with the reliable Unitrol slide-bar which performs without internal or external relays and can control any arrangement of lighting and siren functions. UTM4 models also have auxiliary switches for activation of accessories.

All of the full-featured Touchmaster models are listed on the third page with a description of each one's specific features.

PA/AIR HORN-ONLY SYSTEM

Touchmaster model UTMPA6 is available for applications where a siren is not needed. This unit provides you with Public Address, air horn sound, slide-bar control, and four on/off switches.

QUICK REFERENCE

FEATURES

- Simplified switching controls for eyes-free ease of use.
- Automatic Component Protection (ACP®) prevents damage to the siren if a speaker short-circuits.
- Automatic power control keeps options instantly available without drawing power during standby.
- Tactile sensation when setting switches indicates positive on/off status.
- Low cost installation.
- The ultimate in reliability and durability.

APPLICATIONS

- Emergency service vehicles

RELATED PRODUCTS

Flashers

Bulletin #3301

Grille Lights

Bulletin #4110

Strobe Systems

Bulletin #4131

Speakers

Bulletin #6100

Compact Speakers

Bulletin #6101

Secure Idle™

Bulletin #7200

AUTOMATIC COMPONENT PROTECTION (ACP®)

By constantly checking for short-circuits, Automatic Component Protection (ACP) stops damage to Touchmaster sirens should a speaker fail. Remove the short and operation returns to normal—no need to replace fuses, output transistors, or reset the siren.

SWEEP AND LOCK MODES

The following special features are built into the Touchmaster siren: SWEEP mode makes the siren warning more noticeable by cycling through each of three sounds in six second intervals. The LOCK mode also speeds siren sound changes. With the siren activated, LOCK changes WAIL to continuous Yelp and HI-LO to continuous Hetro® until the original sound is restored with a tap of the horn ring. With Park Siren Deactivation, all siren sound is shut off automatically when the vehicle is shifted into Park, but all warning lights and PA/Radio functions remain active. (Order model UPKM-1 for Park Siren Deactivation)

ADDITIONAL FEATURES

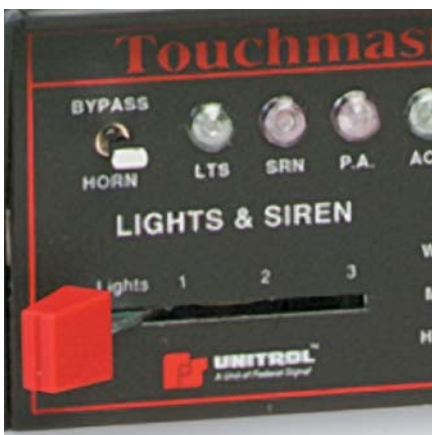
All Touchmaster models allow broadcast of two-way radio messages over the loudspeaker. (An optional mic adapter feature allows the radio microphone to be used for public address.)

During non-pursuit conditions, the BYPASS switch allows the operator to use the siren without activating the warning lights.

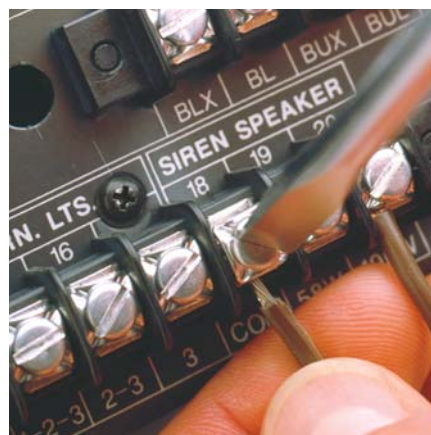
For take-home and K-9 vehicles, the Touchmaster Alert feature supplies a special non-siren Alarm tone which warns of tampering or of high temperature within the vehicle. (Order model UTAS)

INSTALLATION

Touchmaster units are designed for quick and easy installation. Mounting brackets, if ordered, are available to allow the siren to slide out after just a couple turns of the screws. All connections are individually labeled for identification, making installation a snap.



The Unitrol slide switch provides a tactile, longlasting way to control lighting and siren functions. (available on most models)



All connections are plainly labeled to speed installation.

Touchmaster Models and Features

Description	UTM1	UTM3	UTM4	UTM4-0	UTM4-1
5 Siren sounds, horn ring control, 5-second override, Sweep/Lock, Siren Kill, air horn, Alarm, direct-access P.A., flashing indicators, "Clicker", dimmable panel lights, ACP	✓	✓	✓	✓	✓
15A toggle switch for warning light or headlight flasher	✓				
60A slide-bar for lightbars and multiple lights		✓	✓	✓	✓
Brake/Backup light cutoff with Autodim indicator light			✓	✓	
Circuit breakers required and supplied		1	2	2	2
Gun lock release switch, ignition-controlled			✓	✓	
On/off switches for floodlights and accessories			✓	✓	✓
Accessory switch functions shown on faceplate			✓		
Total system switching capacity (in amperes)	35	80	205	205	160

SPECIFICATIONS

	Height		Width		Depth		Ship. Weight		Input Voltage	Operating Current	Standby Current
	in.	cm.	in.	cm.	in.	cm.	lbs.	kg.			
All Models	6.5	16.5	6.5	16.5	5.4	13.8	5.0	2.3	11-16 VDC	0-205 amps	0 amps

Input voltage	11-16 VDC
Standby current	0 amps
Operating current (amplifier)	7.5 amps (one 100 watt speaker) 14 amps (two 100 watt speakers)
Operating temperature range	-30°C to 65°C
Frequency range	500 Hz to 1650 Hz
Nominal cycle range	
Wail	11 cycles per minute
Yelp	240 cycles per minute
Nominal voltage output	64V peak-to-peak (siren tones)
Audio frequency response	300 Hz to 3,000 Hz (±3 dB)
Input impedance	4,000 ohms (nominal)
Current ratings:	
Slide-bar outputs (progressive):	
Position 1.....	20 amps
Position 2.....	20 amps
Position 3.....	20 amps
Progressive total.....	60 amps
Toggle switches	15 amps each

How To Order

1. Specify Touchmaster model (see chart on previous page).
2. Specify optional features. Up to 8 functions can be performed. Order additions or changes by listing order codes after model to be ordered. (More options are available. Contact factory for information.)

UOP08 JetSonic® Lightbar—add automatic cutoff of front flashers during slide-bar position 1 (No charge).

UOP10 Plug-In Adapter—interfaces Touchmaster with connectors of any Unitrol 80K model.

UOP11 Power-Jack—replace microphone jack with power jack (radio microphone will be used).

UOP12 Power-Jack—same as above (separate microphone will be used).

UOP13 Radio Power Control—switches radio from ignition-control to battery-direct during outside radio.

UOP14 Siren Control Switch—add spring-return switch for controlling siren sounds and Sweep to slide-bar models only if horn ring connections are not made (No charge).

UOP15 Trunk Release—add spring-return switch to operate trunk lid solenoid (Positive polarity).

UOP16 Trunk Release—same as above (Negative polarity).

UOP17 Strobe Dimmer—add spring-return switch for activating strobe dimming circuit (Positive polarity).

UOP18 Strobe Dimmer—same as above (Negative polarity).

UOP20 Gun lock timer #GLT, plug-in.

UOP21A 30-Amp on #2 switch.

UOP21B 30-Amp on #3 switch.

UOP22 Plug-in harness.

UOP25 Jog switches for Smart Vector.

UOP30 Blackout clicker, installed.

UOP31 Remote turn on & Wail.

UOP32 Adds high-penetration Futura tone.

3. Order optional equipment. (Contact factory for speaker mounting kits.)

BP100 100 Watt compact speaker, black (Class A).

BP100P 100 Watt compact

speaker, polished (Class A).

TS100 100 Watt compact speaker, black (Class A).

MS100 100 Watt compact speaker, black (Class A).

UMNCT-SB Noise-Cancelling Microphone.

UOPDMT Dual-Mode amplifier with cable.

UNCT Noise-Cancelling Microphone (Heavy-Duty).

UOPT-FMB Flush Mount Bezel, chrome.

UOPT-FMB-B Flush Mount Bezel, black.

UPKM-1 Park Siren Deactivator.

USGT Gun Lock Timer.

UTAS Temperature Switch.

4. Order common microphone adaptor (if necessary). Other mic adaptors are available. Contact factory for more information.

ULM10 Motorola 9000/Syntor/Spectra.

ULM15 Kenwood TK630/730/830.

ULM16 Motorola Maxtrac 300T/Astro/Radius.

ULM19 Motorola MCS2000.



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

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