



TOUCHMASTER™ SERIES SIRENS

> 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.

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.

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

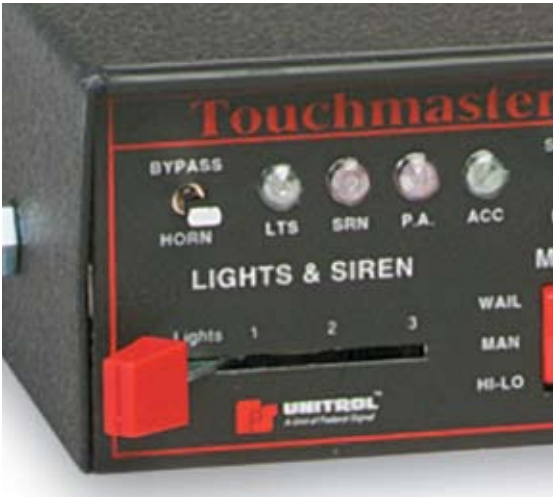
All Touchmaster models allow broadcast of two-way radio messages over the loudspeaker. (An optional mic adapter feature allows the radio microphone to be used for public address.)

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	
Input voltage	11–16 VDC
Standby current	0A
Operating current (amplifier)	7.5A (one 100W speaker) 14.0A (two 100W 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 20A
	Position 2 20A
	Position 3 20A
	Progressive total 60A
	Toggle switches 20A each
Ship Weight	
	5.0 in (2.3 kg)
Physical Specifications	
Height	2.4 in (6.2 cm)
Width	6.5 in (16.5 cm)
Depth	5.4 in (13.8 cm)

> 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

